FILTERBREW & SERVING CONCEPT

TECHNICAL MANUAL

TM_EN

Part No.: 1764092_01

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Some important information may appear in textboxes seen below

IMPORTANT!
INFO.

CAUTION!
INFO.

More INFO.

Note INFO.

Introduction

Thank you for choosing a FILTERBREWER coffee machine.
We hope you enjoy it !

- Read the user guide before using the machine.
- This guide contains important instructions for proper and safe use of the vending machine.
- Always keep this guide close at hand for future reference.

Warnings

- Never immerse the machine, plug or mains cable in water because there is a danger of electric shock.
- The appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure they do not play with the appliance.
- Do not use the machine if the mains cable, plug is damaged or the machine has fallen down.
- If the mains cable is damaged it must be replaced by the manufacturer, service agent or similarly qualified persons in order to avoid a hazard.
- Only plug the machine into a properly installed earthed safety socket whose line voltage matches the technical data for the machine.

Precautions

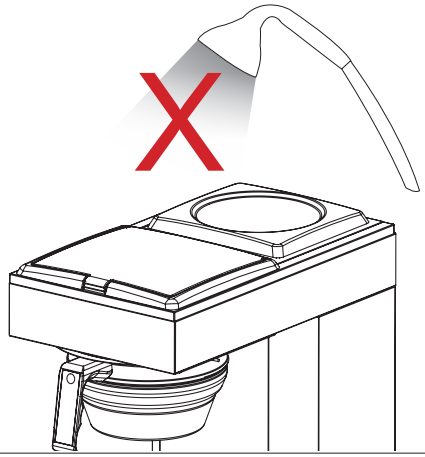
- Do not use the machine outdoors so it can be exposed to weather (rain, snow, frost). It will cause material damage to the machine.
- Do not try to open the machine or repair it in any way. To avoid danger only have the machine repaired in a technical workshop, Service Centre or by a qualified person.
- Remove the mains cable from the socket when the machine is not in use for longer periods. To do this, pull the plug not the cable.
- This appliance must be placed in a horizontal position which is resistant to any water that may leak.
- Place the machine out of the reach of children.
- Position the mains cable so that people cannot trip over it. Keep it away from sharp edges and heat sources.
- The new hose-sets supplied with this appliance are to be used, old hose-sets must not be re-used.
- This appliance is not suitable for installation in an area where a water jet could be used.
- This appliance must not be cleaned by a water jet.

Intended use

- This appliance is intended to be used in household and similar applications such as:
  - Staff kitchen areas in shops.
  - Offices and other commercial working environments.
  - On agricultural estates.
  - By clients in hotels, motels and other residential type environments.
  - Bed and breakfast type environments.
- For the optimal performance of the machine these parameters shall not be exceeded:
  - Maximum permissible inlet water pressure : 800KPa (8Bar)
  - Minimum permissible inlet water pressure: 200KPa (2Bar)
  - Maximum working temperature: 40 °C
  - Minimum working temperature: 10 °C

Rinse Thermos, Decanter and Serving station

- Before each brewing, rinse the thermos, decanter or serving station with fresh tap water.
- When cleaning the outside, use a soft rag with liquid cleaning agent to prevent scratches.

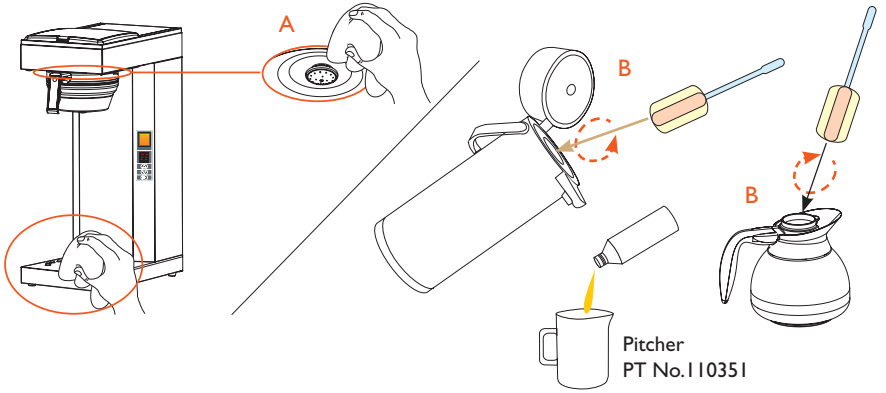


CAUTION!

The machine should not be submerged in water or washed in a dishwasher. it will result in machine damage.

Dayly cleaning

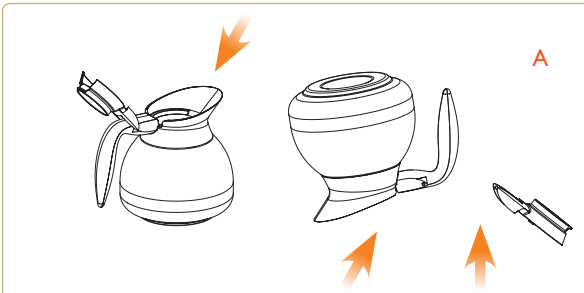
- Wash the thermos, decanter(B) and the filter holder with liquid solution for coffee machines. Always remove the filter immediately and clean the filter holder daily, coffee will get moldy.
- Clean the spray nozzle(A) and the surrounding area.
- Use a soft rag and liquid solution that does not scratch.



Weekly cleaning

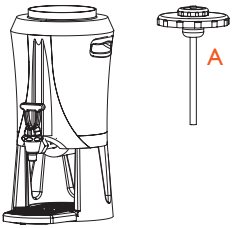
- Descaling and cleaning.
- Pour 50 ml descaling / cleaning solution in a decanter and fill it up with cold water.
- Pour the mixture in the machine and proceed with a brewing without a filterpaper or coffee.
- Rinse the machine thoroughly by brewing at least 3 times with clean water so that the particles from descaling solution disappear.
- Regular descaling will ensure optimum brewing performance and a longer life of the machine.
- When cleaning the decanter in a dishwasher. Dismantle lid and place decanter upside down in the dishwasher.(A)

Descaling agent
PT No. 110412



Cleaning Serving station

- Disassemble the level tube and clean it every week with the enclosed brush.
- Take off the main lid and clean the mixer tube(A).



IMPORTANT!
Rinse the inside of the serving station several times with fresh tap water.

Cleaning of Serving station

- Fill the serving station with hot water. (Full brewing without coffee and filter).
- Put 1 tablespoon with cleaning powder in the serving station and wait at least 15 minutes.
- Tap out 2/3 of the cleaning solution.
- Clean the serving station with the cleaning brush.
- Rinse the serving station with fresh tap water several times before reuse.

OPTIONS

Part No.	CLEANING PARTS
110102-02	Cleaning powder
1104231	Cleaning brush
1103360	Cleaning brush for level tube, mixer tube

Exterior cleaning

- When cleaning exterior of the machine, use a soft rag with liquid cleaning agent to prevent scratches.

A-2, DA-4, Thermos A, Mega Gold A

Select machine type

Enter the procedure to select machine type is the following:

- Press all three buttons , and at the same time before turning on the mains switch The buzzer beeps once.
- The display shows the current setting.
- Step up with button and step down with button .
- Press the button to save setting and exit to normal mode.

MACHINE TYPE	DISPLAY	CUPS	CUPS TIME	BUZZER TIME
DA/A-2	T1	4-12	9.25 s	247
Termos A	T2	4-15	9.25 s	292
Mega A	T3	4-17	9.25 s	344

A-2, DA-4, Thermos A, Mega Gold A

Adjust water amount

- Adjust amount of brew water
- Press the buttons ▲ and ▼ at same time in 5 seconds.

The buzzer beeps twice. Display shows 0.

- Press the ▲ button to increase amount of water.
- Press the ▼ button to decrease amount of water.
- 1 step = 5%
- Press the ■▶ button to confirm the change.

ADJUST	DISPLAY
25%	5
20%	4
15%	3
10%	2
5%	1
0%	0
-5%	-1
-10%	-2
-15%	-3
-20%	-4
-25%	-5

Adjust brew time

- Adjust the brew time
- Press the buttons ▼ and ■▶ at same time in 5 seconds.

The buzzer beeps four times. Display shows 0.

- Press the ▲ button to increase brewing time.
- Press the ▼ button to decrease brewing time.
- 1 step = 5%
- Press the ■▶ button to confirm the change.

- Display shows and machine is ready to use.

Cater

Normal operation with reduced outlet time

- This mode is entered by pressing the and before turning the mains switch on. The buzzer gives a 5s beep to indicate this mode.
- This machine operates like in normal mode but the outlet times are reduced by 90% in order to allow faster adjustment of valve times.

Adjusting of water temperature

- Press buttons and at the same time for 5 seconds until you hear one beep. Display shows the present setting 94
- Adjust with the buttons = (increase) and = (decrease).
- Confirm the new settings by pressing the button.
  70 °C = min. temperature.
  96 °C = max. temperature.

Adjusting of temperature sensor

ADJUST	DISPLAY
+5°C	5
+4°C	4
+3°C	3
+2°C	2
+1°C	1
0	0
-1°C	-1
-2°C	-2
-3°C	-3
-4°C	-4
-5°C	-5

In this mode a temperature offset for the NTC sensor can be adjusted. The procedure to enter this mode is the following:

- Press buttons , and at the same time for 5 seconds until you hear 2 beeps.
- The display shows the current setting.
- Adjust with the buttons = (increase) and = (decrease).
- Pressing the button to save new settings and return to normal mode.

Cater

Adjusting of water quantity

ADJUST	DISPLAY
25%	5
20%	4
15%	3
10%	2
5%	1
0%	0
-5%	-1
-10%	-2
-15%	-3
-20%	-4
-25%	-5

The procedure to enter this mode is the following:

- Press buttons and at the same time for 5 seconds until you hear 3 beeps.
- The display shows the current setting.
- Adjust with the buttons = (increase) and = (decrease).
- Presse the button to save new settings and return to normal mode.

Adjusting of brewing time

ADJUST	DISPLAY
25%	5
20%	4
15%	3
10%	2
5%	1
0%	0
-5%	-1
-10%	-2
-15%	-3
-20%	-4
-25%	-5

In this mode the time for the brewing done buzzer activation can be adjusted. The procedure to enter this mode is the following:

- Press buttons and at the same time for 5 seconds until you hear 5 beeps.
- The display shows the current setting.
- Adjust with the buttons = (increase) and = (decrease).
- Presse the button to save new settings and return to normal mode.

Note	The brewing time is the same regardless adjustment of the outlet valve time.

Cater

Select machine type

In this mode the machine type can be chosen. The procedure to enter this mode is the following:

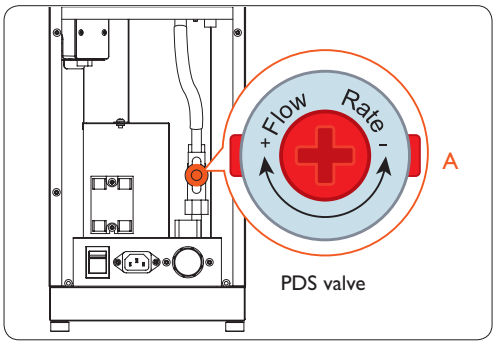
- Press buttons , and at the same time before turning the mains switch on until you hear 6 beeps.
- The display shows the machine type.
- Step up with button and step down with button .
- Presse the button to save new setting and return to normal mode.

Machine type	Display	Outlet time (s)		Buzzer time (s)
		Half	Full	
1.8L	T1	56	113	90
2.5L	T2	79	158	90

Adjusting of flow water

IMPORTANT!

From date 091001 Cater is delivered with an adjustable PDS valve. This is to improve the water flow into filter holder. The flow of PDS valve is set to 0.95 litre /minute. Depending on the coarseness and amount of coffee that's used when brewing, the flow might need adjustments to prevent overflow in the filter holder.



- Check the water flow.
- This should be 0.95L/minute.
- Adjust PDS valve if necessary. (See fig.A)

Shall been done by an authorized installation engineer

Cater

Test functions

- Press buttons and at the same time before turning the mains switch on, puts the control board into test mode for time and temperature controlled machines.
- For the other types pressing buttons and before power-on results in test mode.
- A test sequence starts:

  - Turn all outputs off
  - Turn V_WATER on for 3 s
  - Turn V_OUT_A on for 3 s
  - Turn HEAT on for 3 s
  - Turn buzzer on for 2 s
  - Show NTC temperature on displayed
  - If button is pressed display B1
  - If button is pressed display B2
  - If button is pressed display B3
  - If LVL_SAFE is passive display L1
  - If LVL_REF is passive display L2

Tower

Normal operation with reduced outlet time

- This mode is entered by pressing and before turning the mains switch on. The buzzer gives a 5s beep to indicate this mode.
- This machine operates like in normal mode but the outlet times are reduced by 90% in order to allow faster adjustment of valve times.

Adjusting of temperature sensor

ADJUST	DISPLAY
+5°C	5
+4°C	4
+3°C	3
+2°C	2
+1°C	1
0	0
-1°C	-1
-2°C	-2
-3°C	-3
-4°C	-4
-5°C	-5

In this mode a temperature offset for the NTC sensor can be adjusted. The procedure to enter this mode is the following:

- Press buttons , and at the same time for 5 seconds until you hear 2 beeps.
- The display shows the current setting.
- Adjust with the buttons = (increase) and = (decrease).
- Pressing the button to save new settings and return to normal mode.

Select machine type

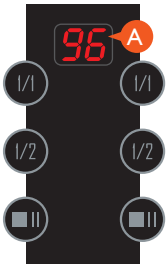
In this mode the machine type can be chosen. The procedure to enter this mode is the following:

- Press buttons , and at the same time before turningthe mains switch on until you hear 6 beeps.
- The display shows the machine type.
- Step up with button and step down with button .
- Presse the button to save new setting and return to normal mode.

MACHINE TYPE	DISPLAY	OUTLET TIME (s)		BUZZER TIME(s)
		HALF	FULL	
5L	T1	150	300	300
10L	T2	300	600	300
6L	T3	180	360	300
12L	T4	360	720	300

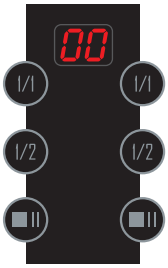
Tower

Adjusting water temperature



- Press left buttons 1/1 and 1/2 at the same time for 5 seconds until you hear1 beep. Display shows the present setting(A).
- Adjust with the left buttons
  1/1 (increase water temp.) and 1/2 (decrease water temp.)
- Confirm the new settings by pressing the left button once.
  70 °C = min. temperature.
  96 °C = max. temperature.

Adjusting water quantity



ADJUST	DISPLAY
25%	5
20%	4
15%	3
10%	2
5%	1
0%	0
-5%	-1
-10%	-2
-15%	-3
-20%	-4
-25%	-5

For left side

- Press left buttons 1/1 and at the same time for 5 seconds until you hear 3 beeps. the display shows the current setting.
- Adjust with the left buttons
  1/1 (increase) and 1/2 (decrease)
- Confirm the new settings by pressing the left button once.

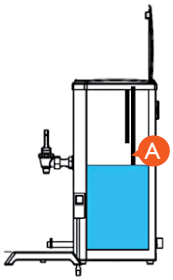
For right side

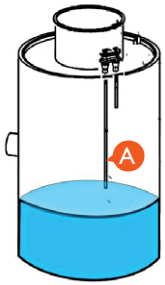
- Press right buttons 1/1 and at the same time for 5 seconds until you hear 3 beeps. the display shows the current setting.
- Adjust with the right buttons 1/1 (increase) and 1/2 (decrease)
- Confirm the new settings by pressing the right button once.

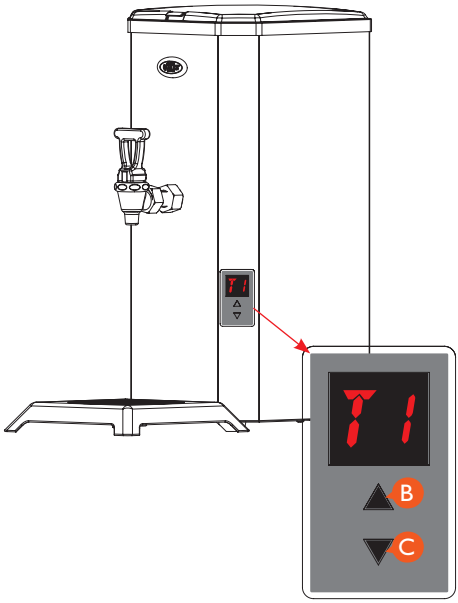
HVA/HVM

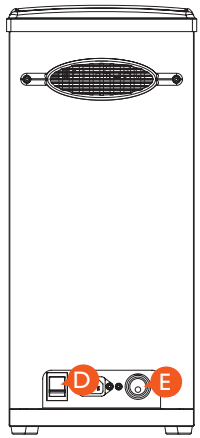
Select machine type

- Use a decanter to fill up the water tank to the long sensor pin.(A)
- Keep button (B) pressed while turning on the power switch.(D)









- The display will show T1, change the type of machine with buttons (B) or (C).
  T1 = HVA automatic
  T2 = HVM manual
- Confirm the choice by holding down the buttons (B) and (C) at the same time for approximately 5 seconds.

Note	Install the plug supplied in the inlet valve (E) to avoid possible leakage.

Grinder Original

Normal operation

There are several sub modes for this mode:

- READY

  The machine is in this mode after power on. The motor is off and timers are stopped.

  Pressing the button and changes the number of cups to be prepared. The number of cups is displayed on the 2 digit display. The range is 4 -34 cups. The latest number of cups will be used even after power cycling the machine. Pushing the button to start the motor timer (number of cups x time per cup) and activates the motor V_MOTOR and moves the machine into GRINDING mode.

- GRINDING

  The display is blinking at 0.5 Hz. The timer is checked. After the motor time has expired the the motor is turned off. Pushing the button again pauses the timer, deactivates the motor and moves into PAUSED mode. If button is pressed more than 5 s the machine moves to READY mode.

- PAUSED

  The displays is blinking at 2 HZ. If the button is pressed again a beep signals the recognition of the button press and the machine moves back to GRINDING mode after 2 s unless the is still pressed and keeps pressed more than 5 s which moves the machine to READY mode.

A djust time per cup

TIME/CUP	DISPLAY	
	Digit 1	Digit 2
1.0	1	0
...	...	...
9.9	9	9

In this mode the time for the motor activation per selected number of cups can be adjusted. The procedure to enter this mode is the following:

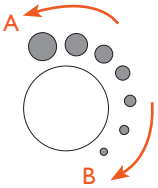
- Press buttons and for 5 seconds until you hear 3 beeps.
- The display shows the current setting.
- Increase inlet valve time with and decrease with .
- Press to save new settings and return to normal mode.
- The adjustment is made in 0.1 s steps. The range is 1.0 to 9.9 s per cup.
- The time per cup is saved permanently.

Grinder Original

Adjust coffee amount

- Press buttons ▲ and ▼ simultaneously for 6 seconds.
- The display (A) shows the current time setting for grinding.
- You can now choose to increase or decrease the time 15 = 1.5 seconds for grinding, by pressing the buttons ▲ or ▼ .
  This means that you increase or decrease the amount of coffee grounds.

Adjust coffee grind



- The grinding degree 10 is preset from the factory.
- Push the knob and turn counterclockwise (A) for coarser grind or clockwise (B) for finer grinding.

Testing

- Pressing the ▲ and ▼ buttons before turning the mains switch on puts thecontrol board into test mode.
- A test sequence starts:
  - Turn all outputs off
  - Turn V_MOTOR on for 3 s
  - Turn buzzer on for 2 s
  - If button ▲ is pressed display B1
  - If button ▼ is pressed display B2
  - If button ▶ is pressed display B3

Original A/M

Fault and solution

IMPORTANT!

All maintenance and installations must be done of an authorized technician.

FAULT	POSSIBLE SOLUTION
Power switch does not lit	▪ Check plug connection to wall socket. ▪ Check fuse in plug. ▪ Check if hot plate becomes warm, if so replace power switch.
Hot plate does not become warm although switch is lit.	▪ Check connection to hot plate. ▪ If hot plate is defective, replace.
Brewer excess steam.	▪ Machine may require descaling. ▪ Spray nozzel may need unblocking. ▪ Hose may be bent. ▪ Inlet to boiler may be blocked. Descale machine - if boiler still defective - replace.
Machine will not brew.	▪ Check overheating protection. ▪ Check microswicth. ▪ Check connection to boiler. ▪ Boiler unit may need replacing.
The machine does not take in water	▪ Make sure water tap is open. ▪ Make sure the water hose is not bent. ▪ Check inlet valve. ▪ Check that the display is blinking.
The machines does not stop taking in water.	▪ Dirt in the inlet valve. ▪ inlet valve is defective - replace ▪ PCB is defective - replace
The machine is giving wrong amount of water.	▪ Check water tap. ▪ Water hose is bent. ▪ Dirt in inlet valve. ▪ Water amount adjustment set in display is adjusted faulty. Adjust according to page 21. ▪ Defect floatregulator in inlet valve - replace

POSSIBLE SOLUTION

Cater, Tower, HVA/HVM

Fault and solution

Remove the power cord from the wall socket during any installation work.

IMPORTANT!

All maintenance and installations must be done of an authorized technician.

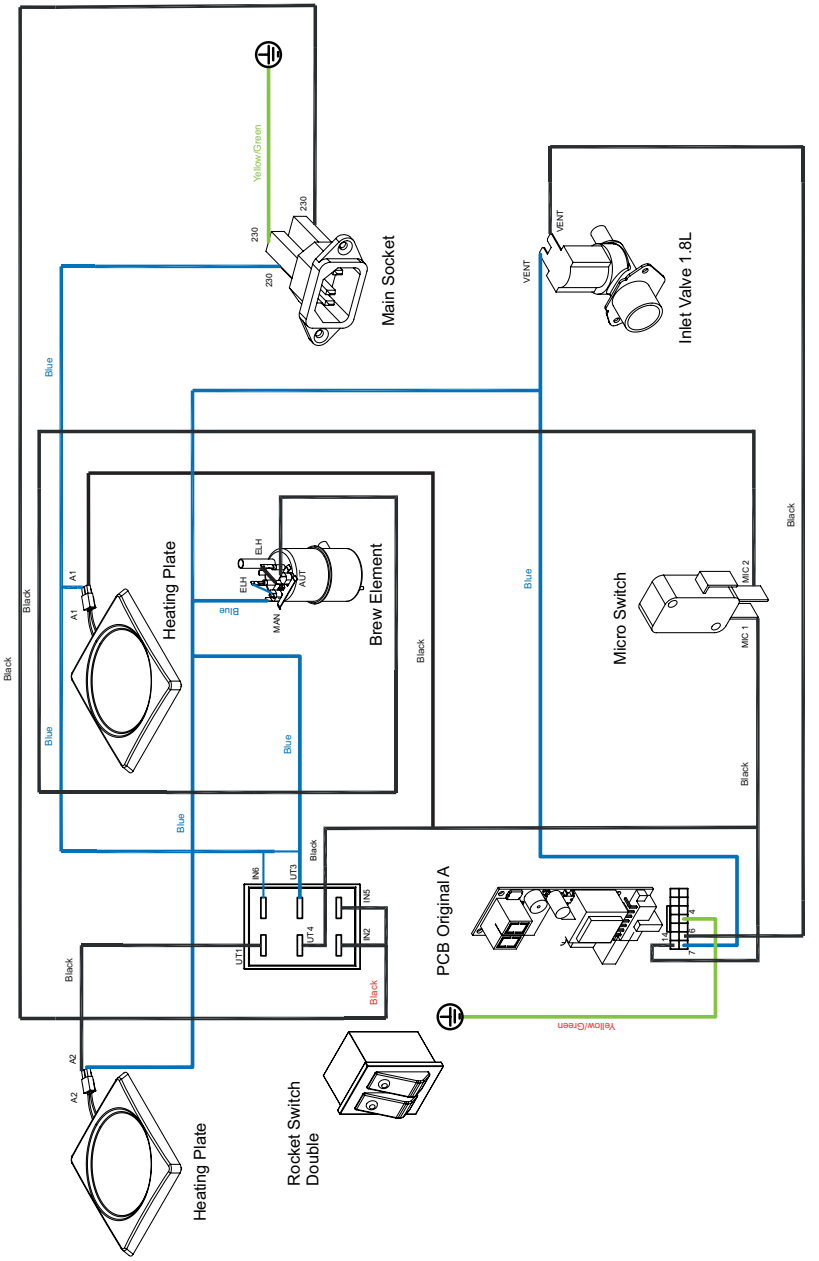
LEVEL CONTROL

SHOWN ON THE DISPLAY	POSSIBLE FAULT	POSSIBLE SOLUTION
	- The high water level sensor is triggerd before the low level sensor.	- Clean the level sensor. - Replace. - Cables connected is incorrectly.
	- The machine fills slowly. - Poor water pressure. - Water connection tap is not open	- Check water connection. - Restart machine.

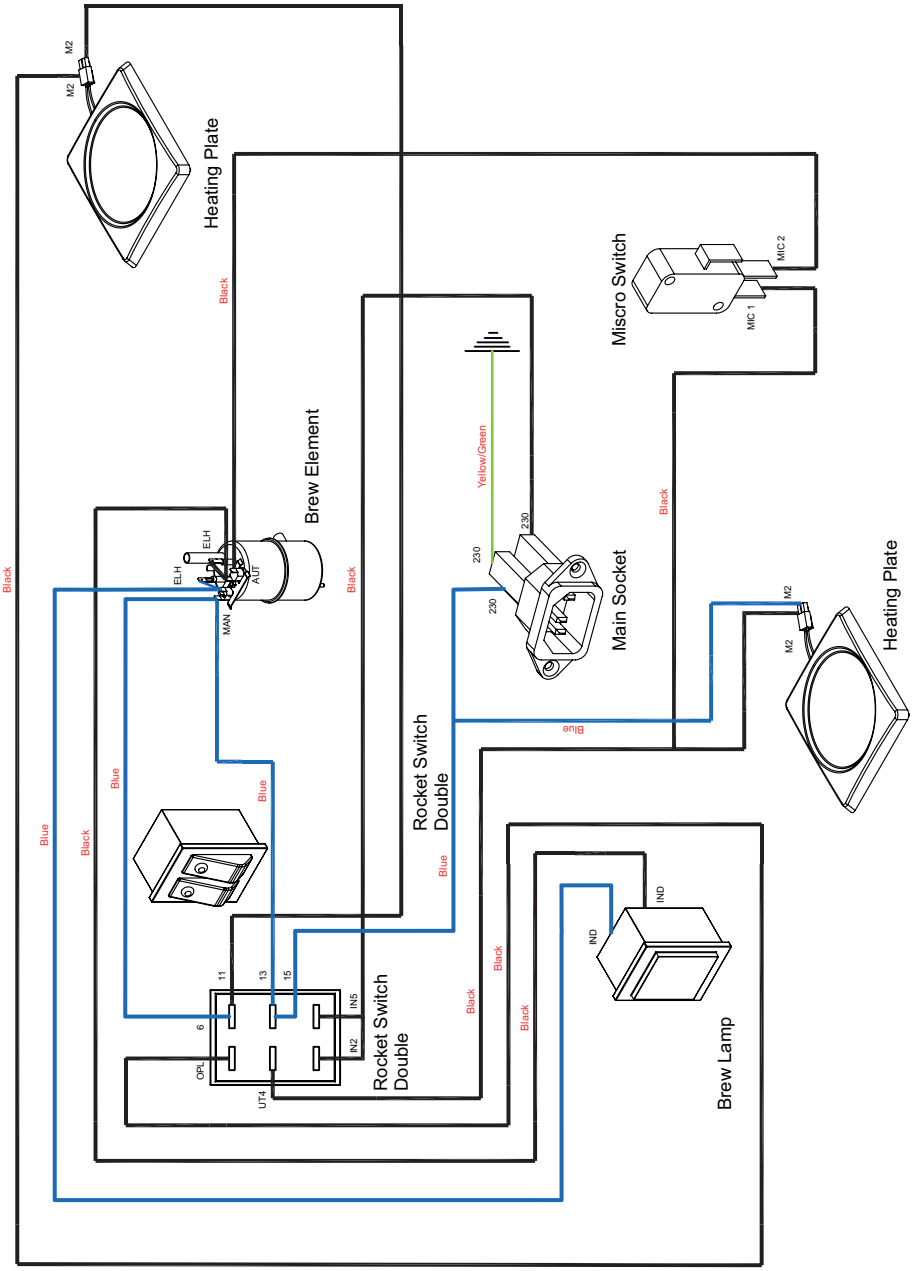
TEMPERATURE CONTROL

SHOWN ON THE DISPLAY	POSSIBLE FAULT	POSSIBLE SOLUTION
	- Temperature sensor out of range. - Temperature sensor is broken. - Cable loose.	- 5ºC - 105ºC. - Replace temperature sensor. - Check cables.
	- Heating time too long. - Solid state broken. - Element broken. - Overheating guard tripped or broken.	- Restart the machine. - Replace element. - Replace solid state. - Check overheating protection.

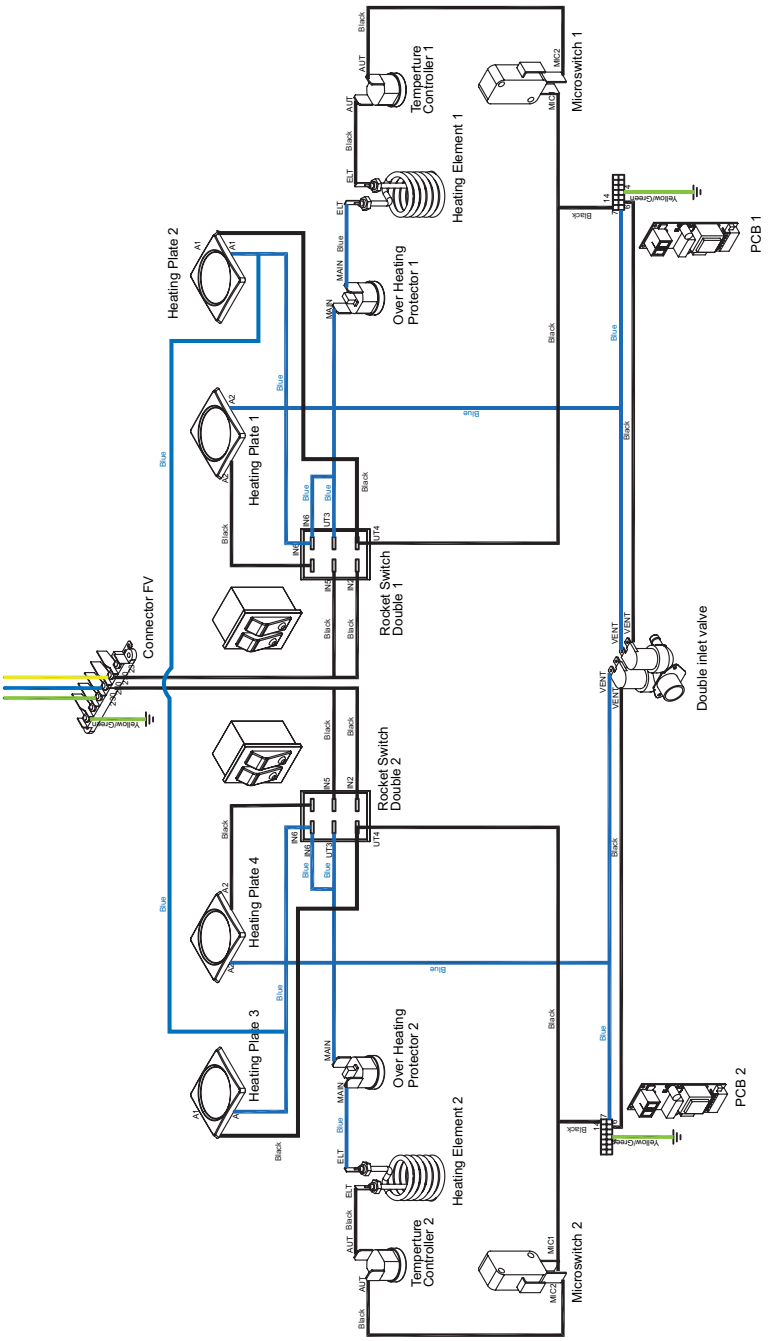
A-2


Main Socket
Yellow/Green
230
230
230
Inlet Valve 1.8L
VENT
VENT
Micro Switch
MIC 2
MIC 1
Brew Element
ELH
ELH
MAN
Heating Plate
A1
A1
Heating Plate
A2
A2
PCB Original A
Rocket Switch
Double
IN6
UT3
IN5
UT4
IN2
UT1
Blue
Black
Black
Blue
Blue
Blue
Blue
Black
Black
Black
Black
Black
Yellow/Green

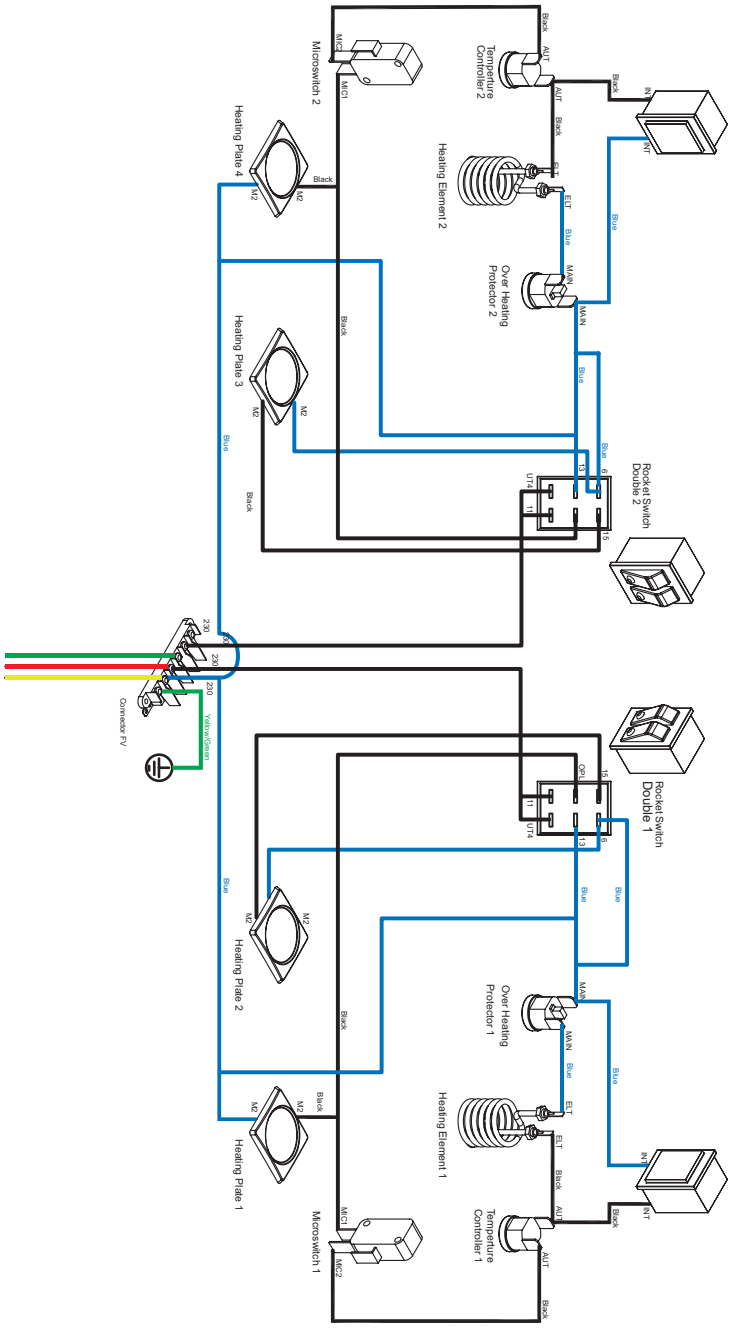
M-2


Heating Plate
M2
M2
Black
Brew Element
ELH
ELH
AUT
MAN
Black
Yellow/Green
230
230
230
Main Socket
Micro Switch
MIC 2
MIC 1
Black
Heating Plate
M2
M2
Blue
Blue
Blue
Black
Blue
Rocket Switch
Double
Blue
Black
Black
Black
IND
IND
Brew Lamp
11
13
15
6
IN5
IN2
OPL
UT4
Rocket Switch
Double

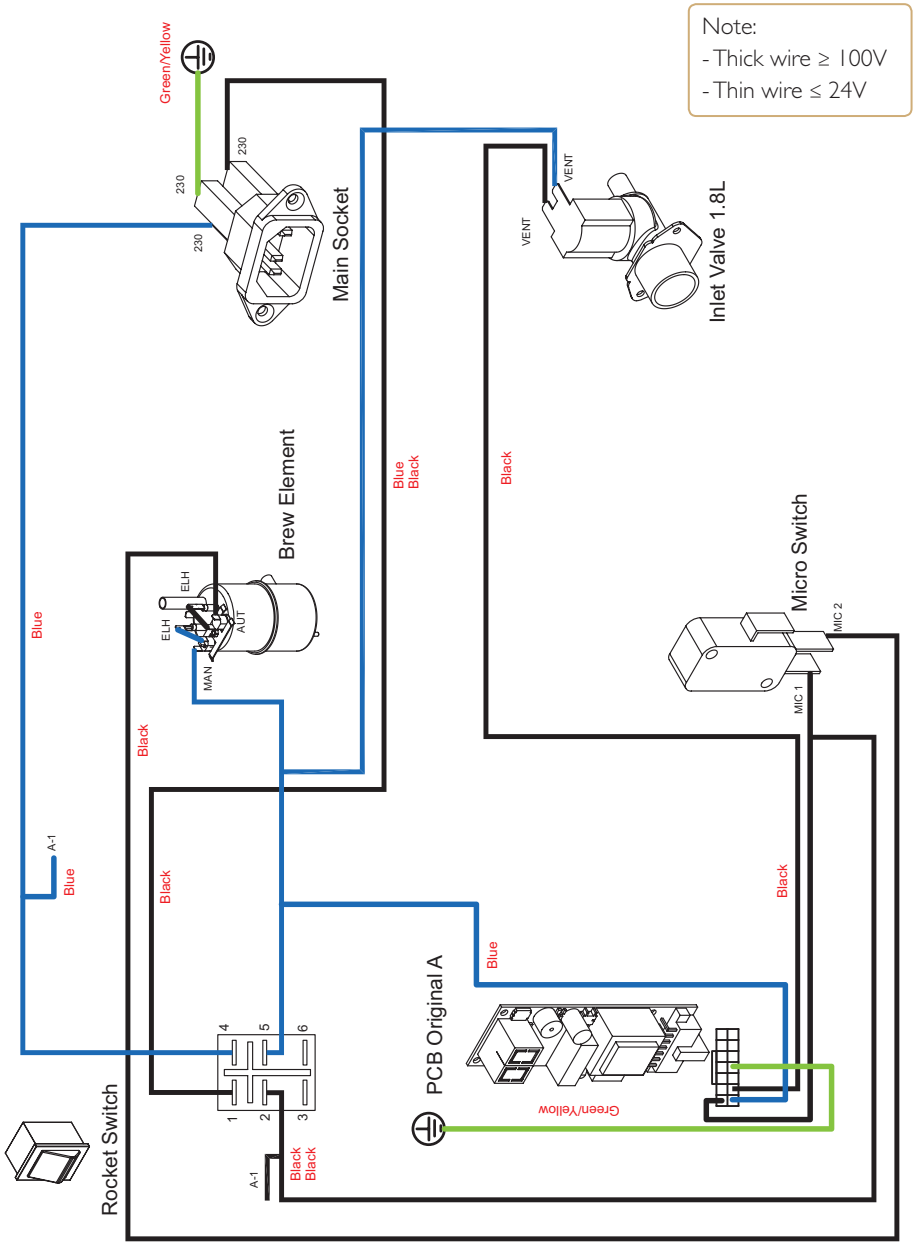
DA-4


Heating Plate 2
Heating Plate 1
Heating Plate 4
Heating Plate 3
Connector FV
Rocket Switch Double 1
Rocket Switch Double 2
Over Heating Protector 1
Over Heating Protector 2
Heating Element 1
Heating Element 2
Temperture Controller 1
Temperture Controller 2
Microswitch 1
Microswitch 2
PCB 1
PCB 2
Double inlet valve
Blue
Black
Yellow/Green
MAIN
ELT
AUT
VENT
IN1
IN2
IN3
IN4
IN5
IN6
UT3
UT4
MIC1
MIC2
T1
T2

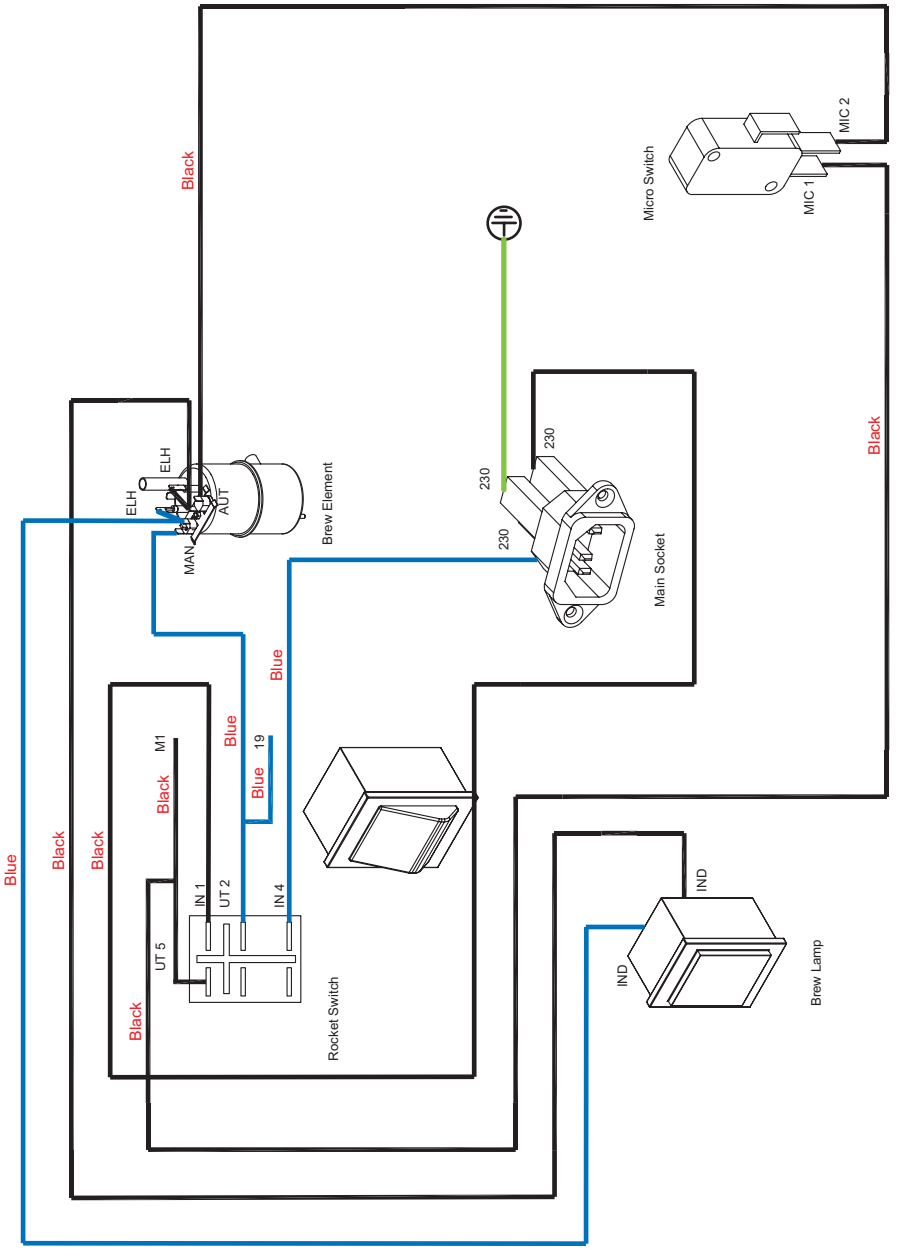
DM-4


Microswitch 2
Temperture Controller 2
Heating Plate 4
Heating Element 2
Over Heating Protector 2
Heating Plate 3
Rocket Switch Double 2
Connector FV
Rocket Switch Double 1
Heating Plate 2
Over Heating Protector 1
Heating Element 1
Heating Plate 1
Microswitch 1
Temperture Controller 1
Black
Blue
Yellow/Green

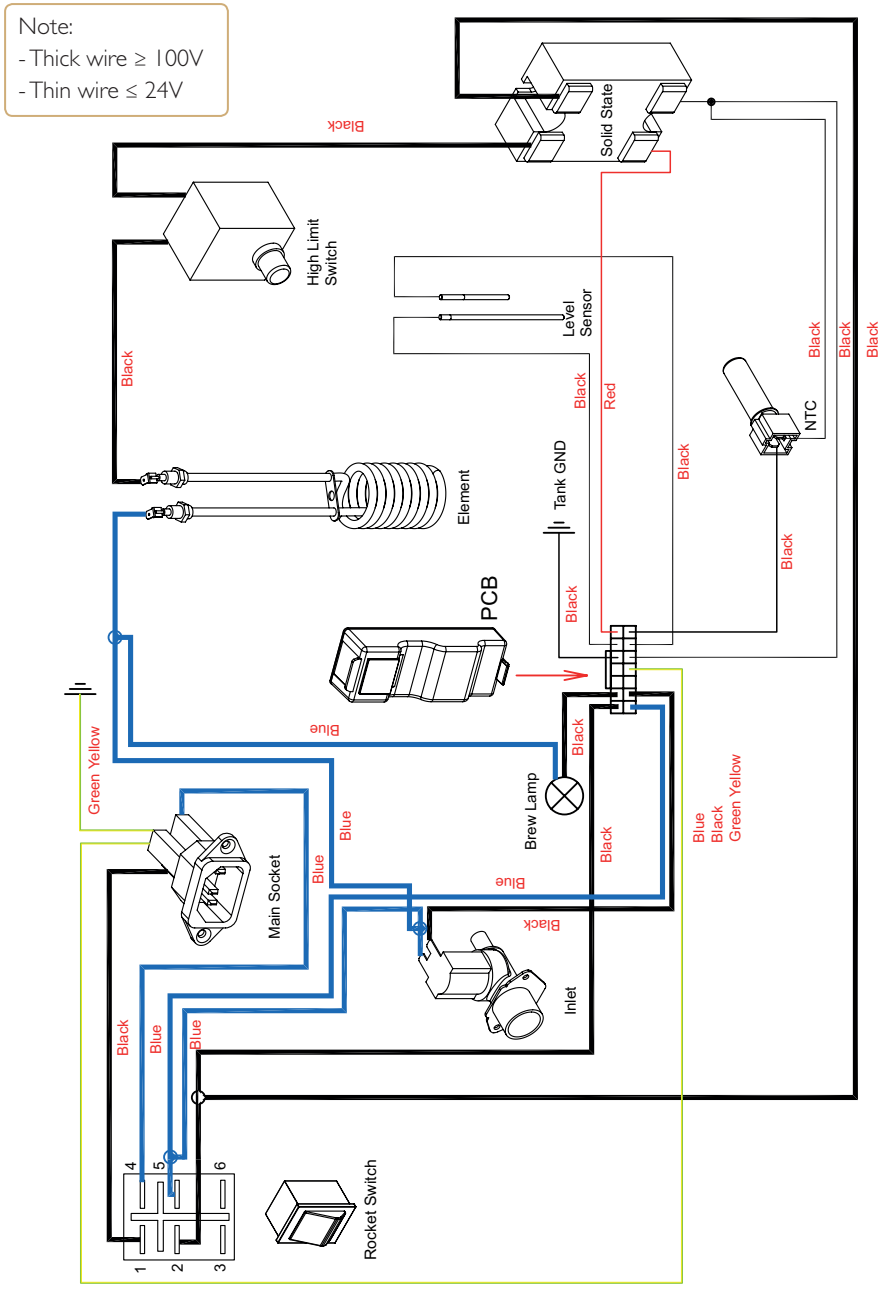
Mega Gold A, Termos A



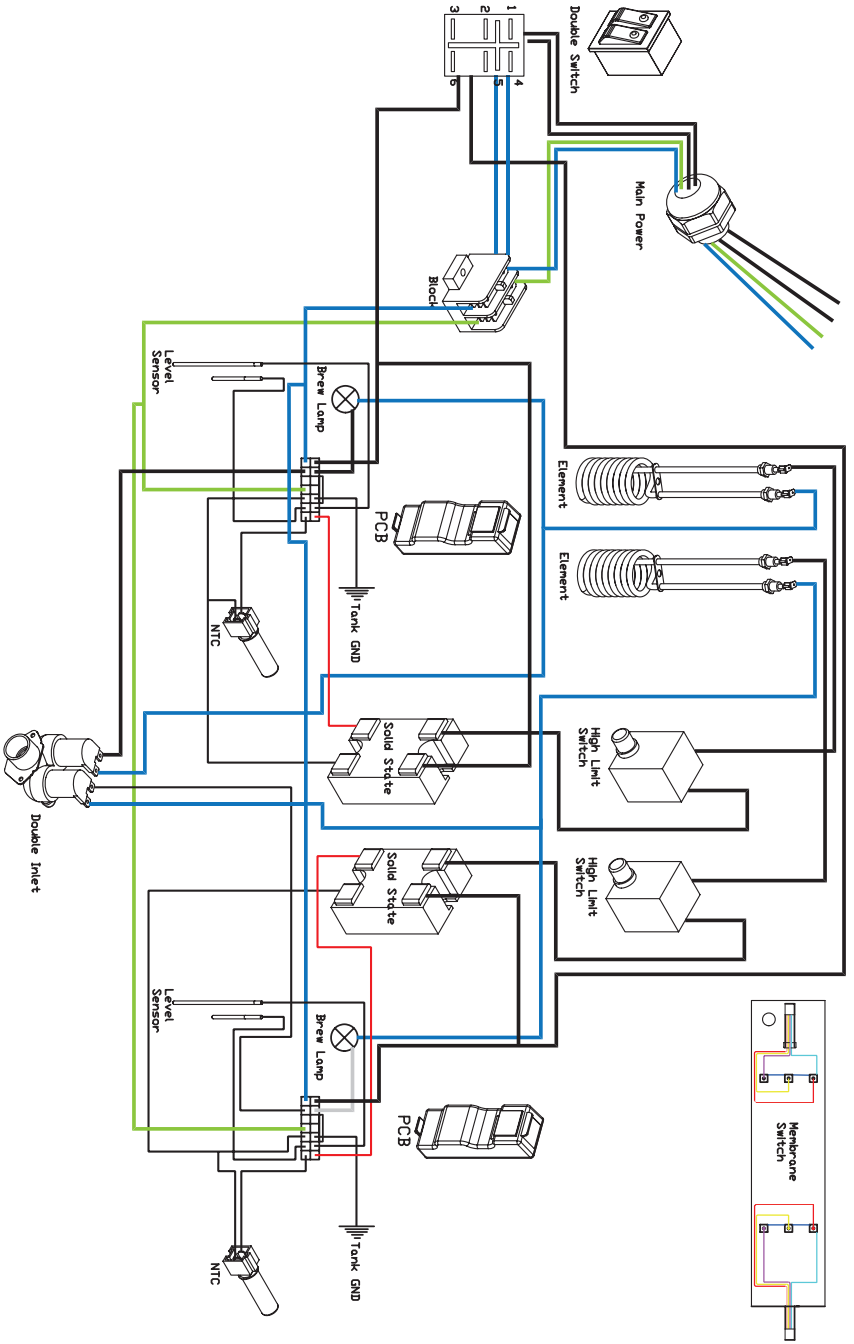
Mega Gold M, Termos M, Office



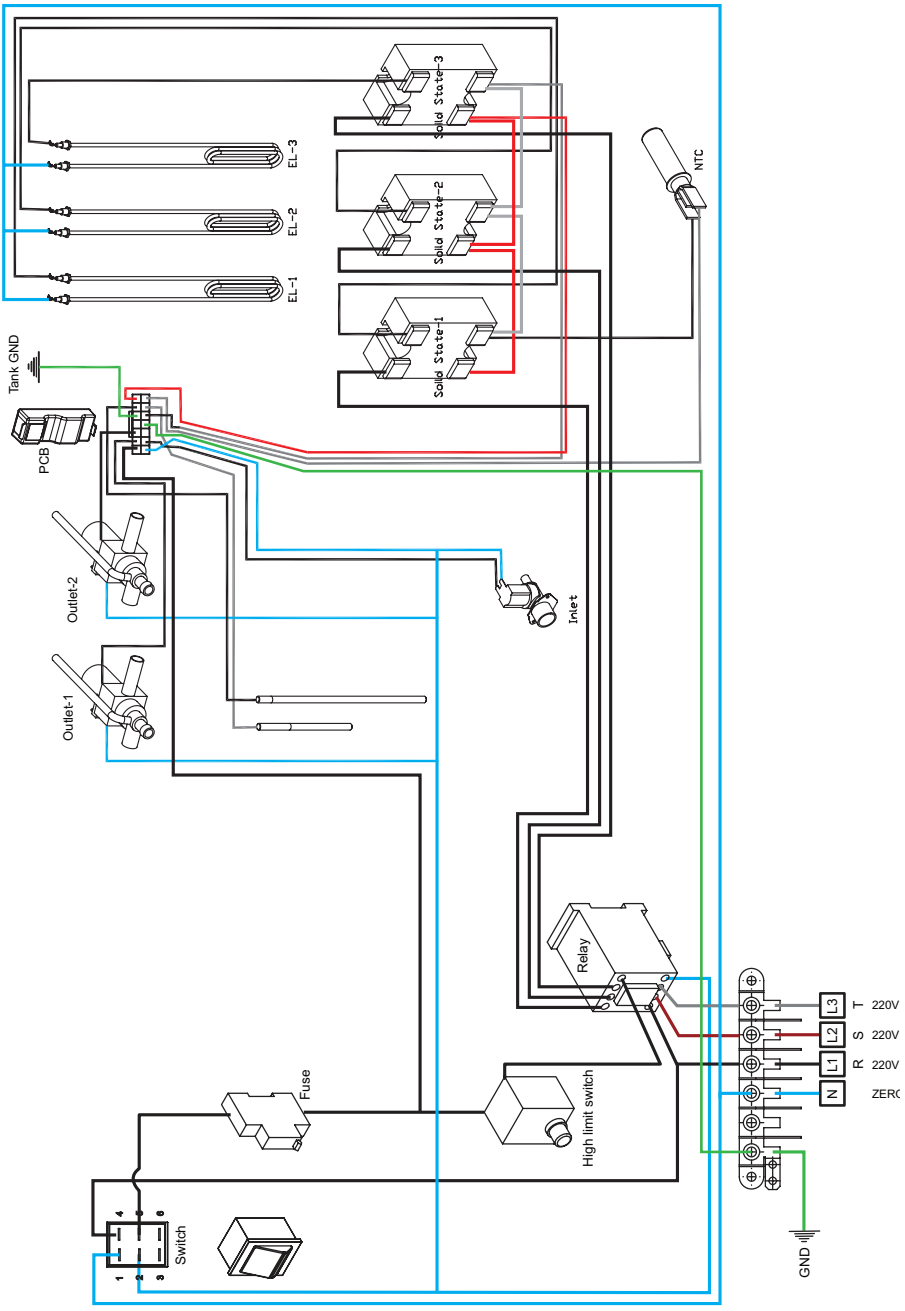
Single Cater



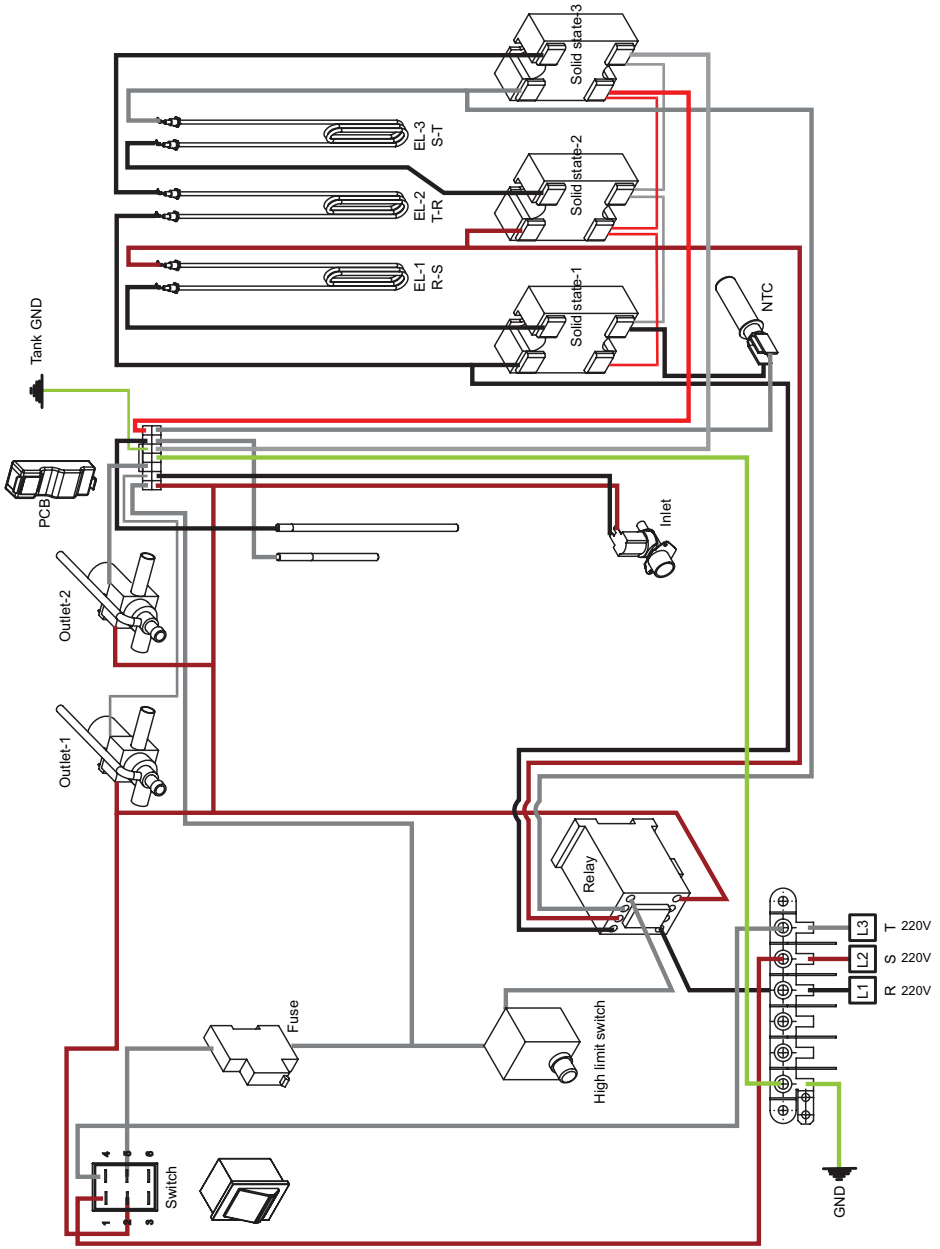
Cater


Double Switch
Main Power
Block
Level Sensor
Brew Lamp
PCB
Element
Element
NTC
Tank GND
Solid State
High Limit Switch
Double Inlet
Solid State
High Limit Switch
Level Sensor
Brew Lamp
PCB
NTC
Tank GND
Membrane Switch

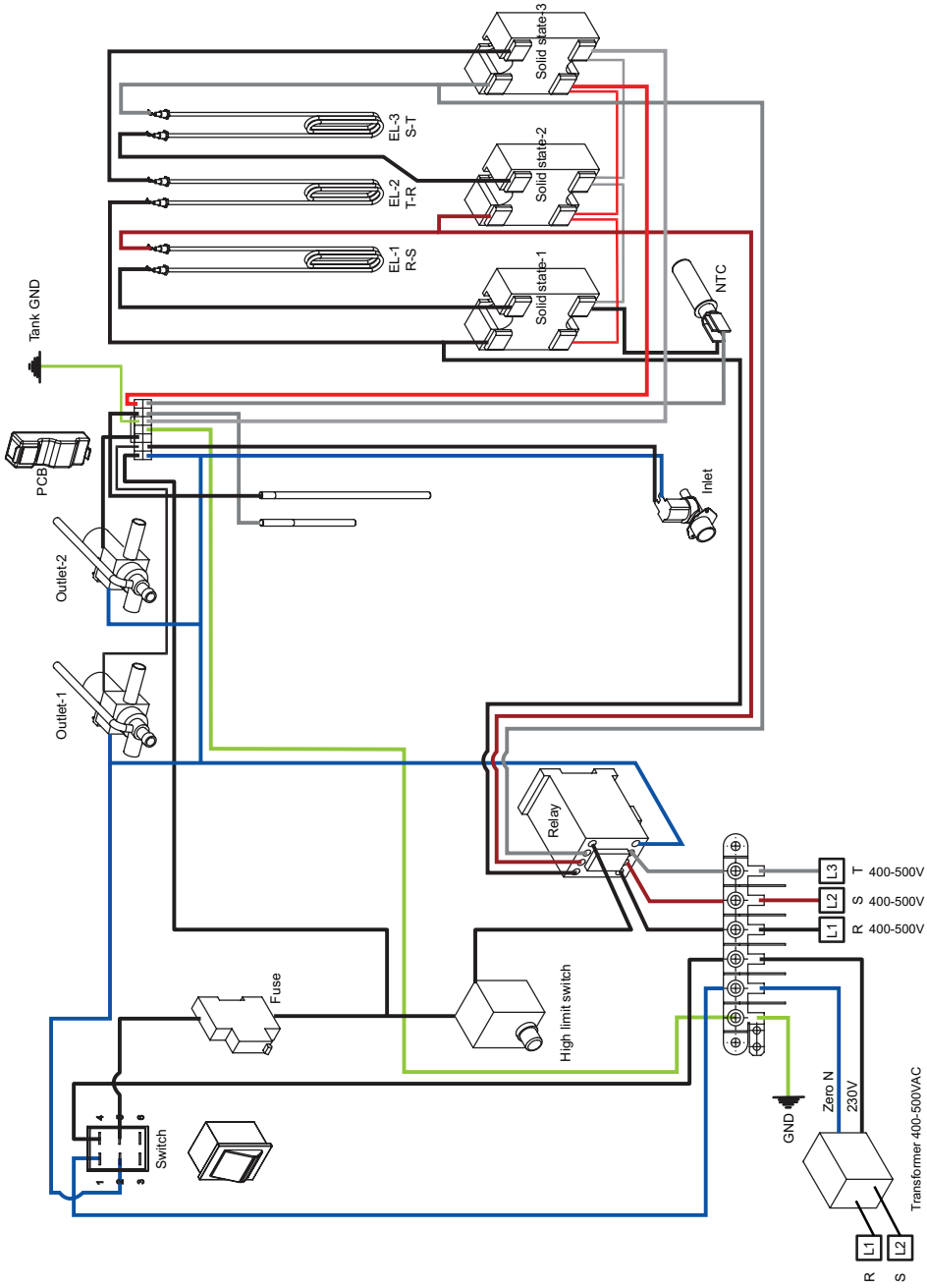
Tower 3x400VAC+Zero+Ground



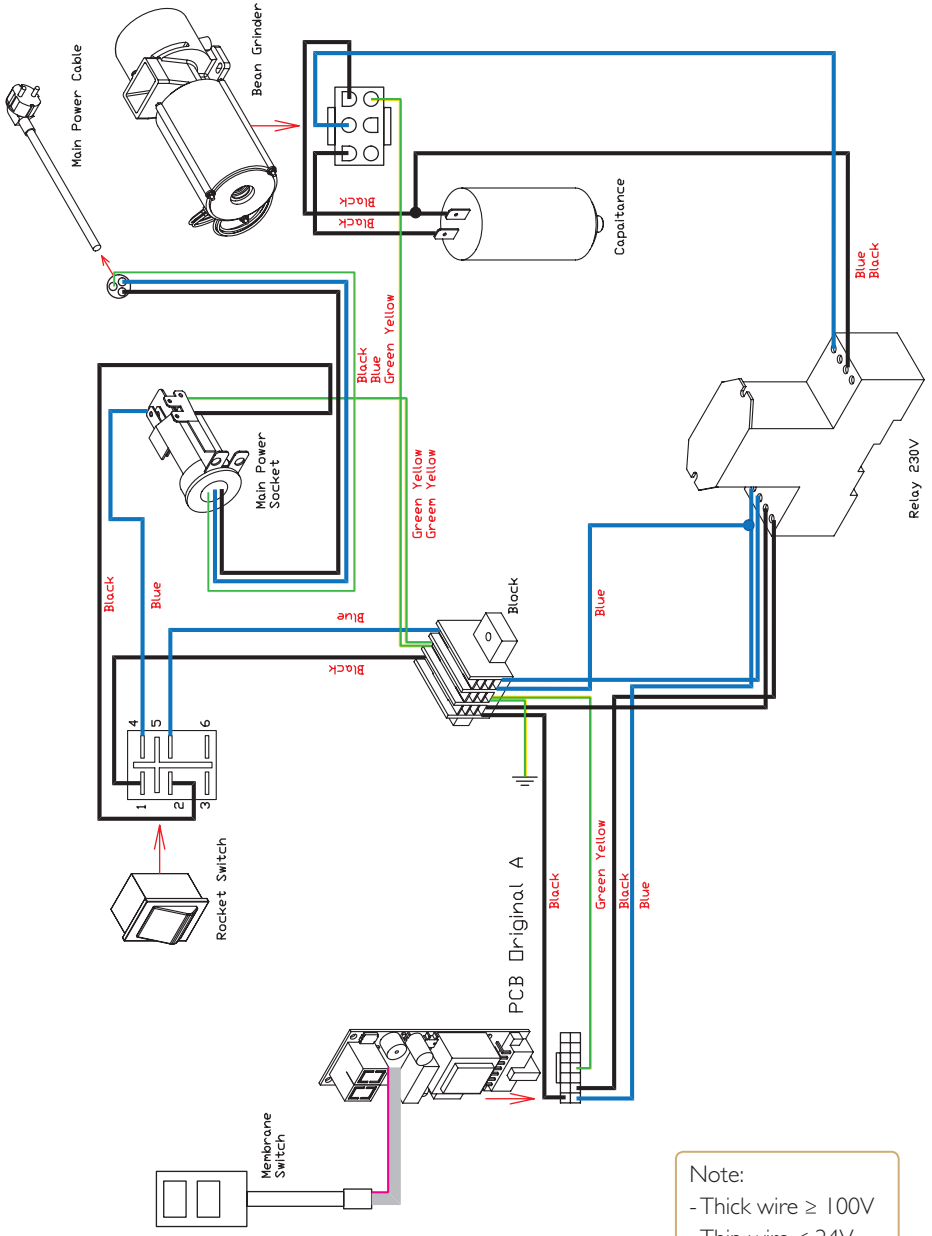
Tower 3x230VAC+Ground



Tower 3x400-500VAC+Ground

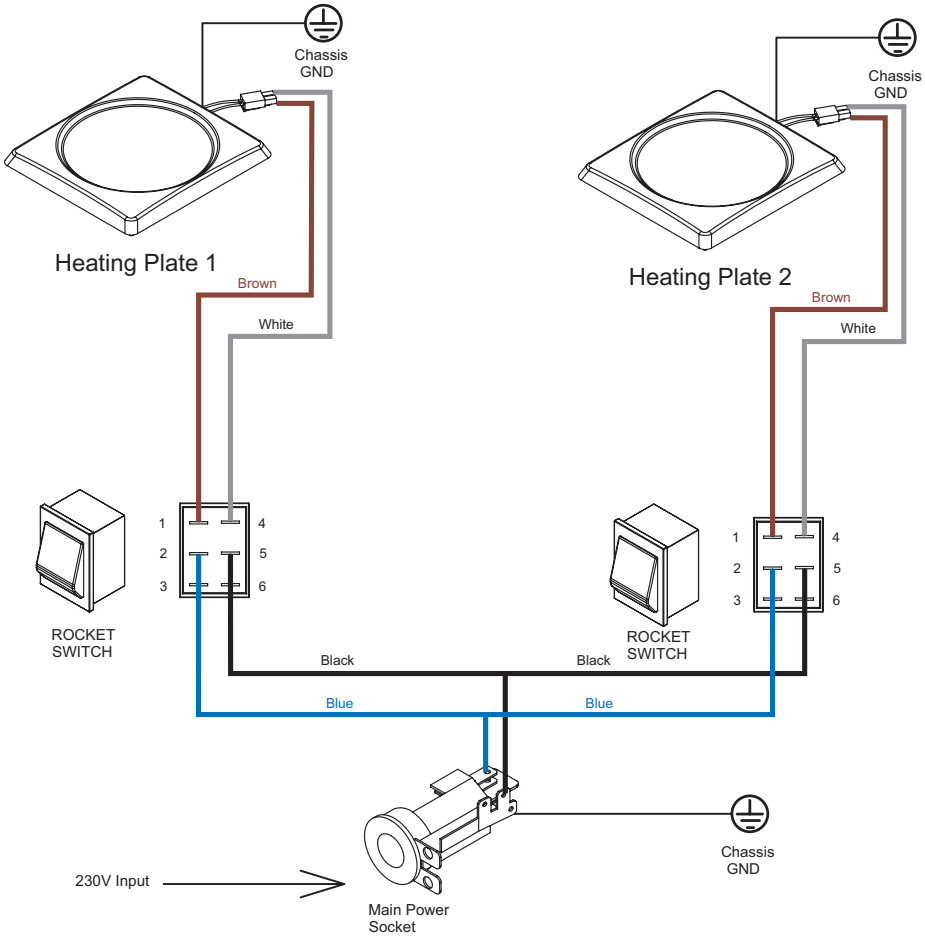


Grinder Original

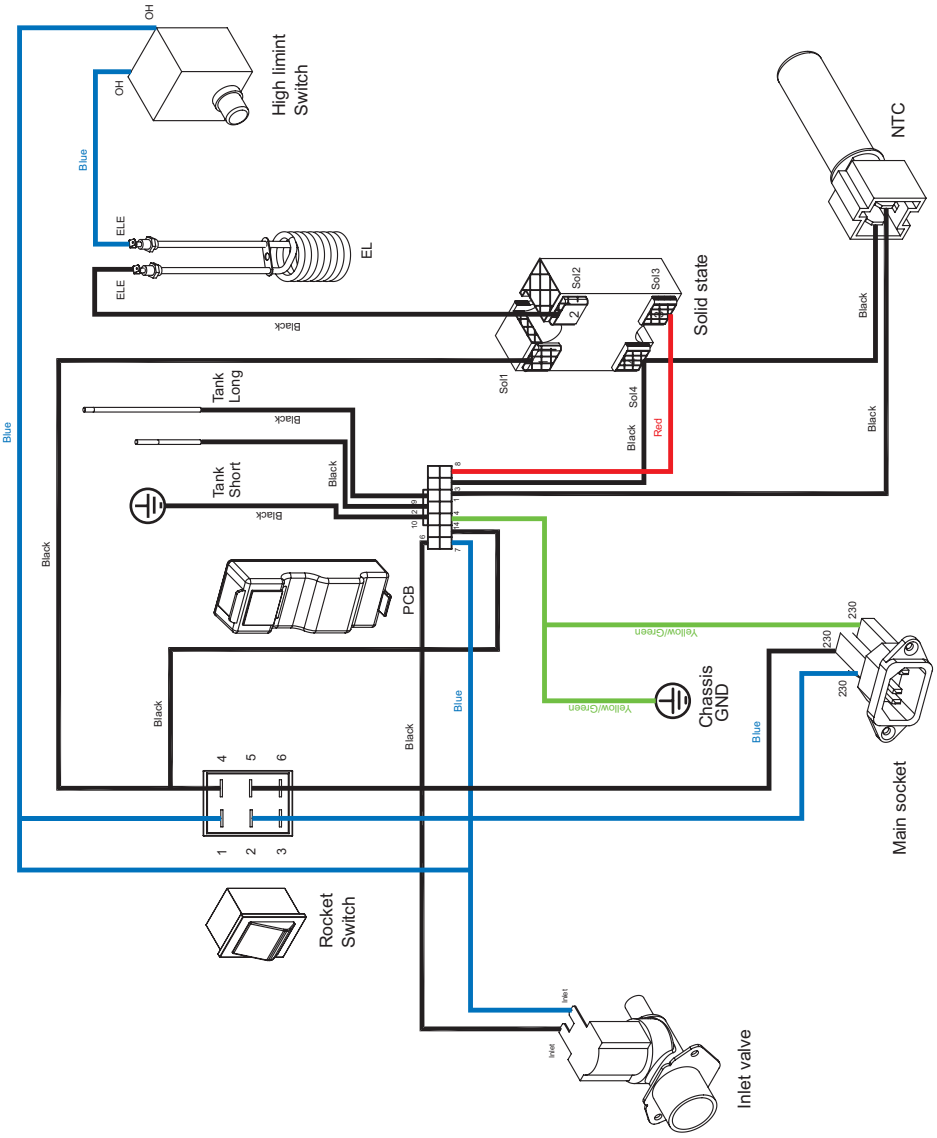


Note:
- Thick wire ≥ 100V
- Thin wire ≤ 24V

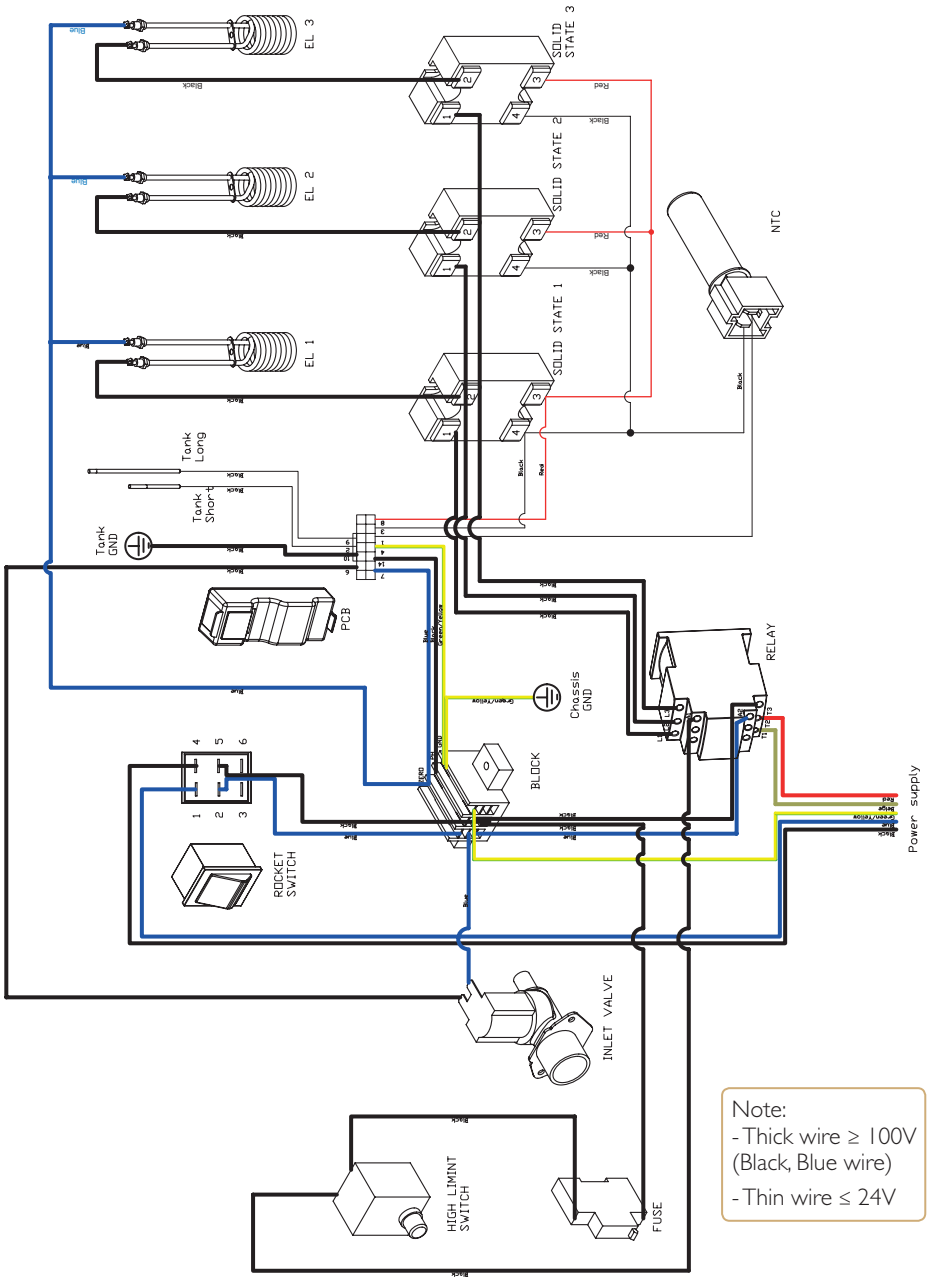
V-2


Chassis
GND
Heating Plate 1
Brown
White
Chassis
GND
Heating Plate 2
Brown
White
1
2
3
4
5
6
ROCKET
SWITCH
ROCKET
SWITCH
Black
Black
Blue
Blue
230V Input
Main Power
Socket
Chassis
GND

HVA/HVM 1-Phase



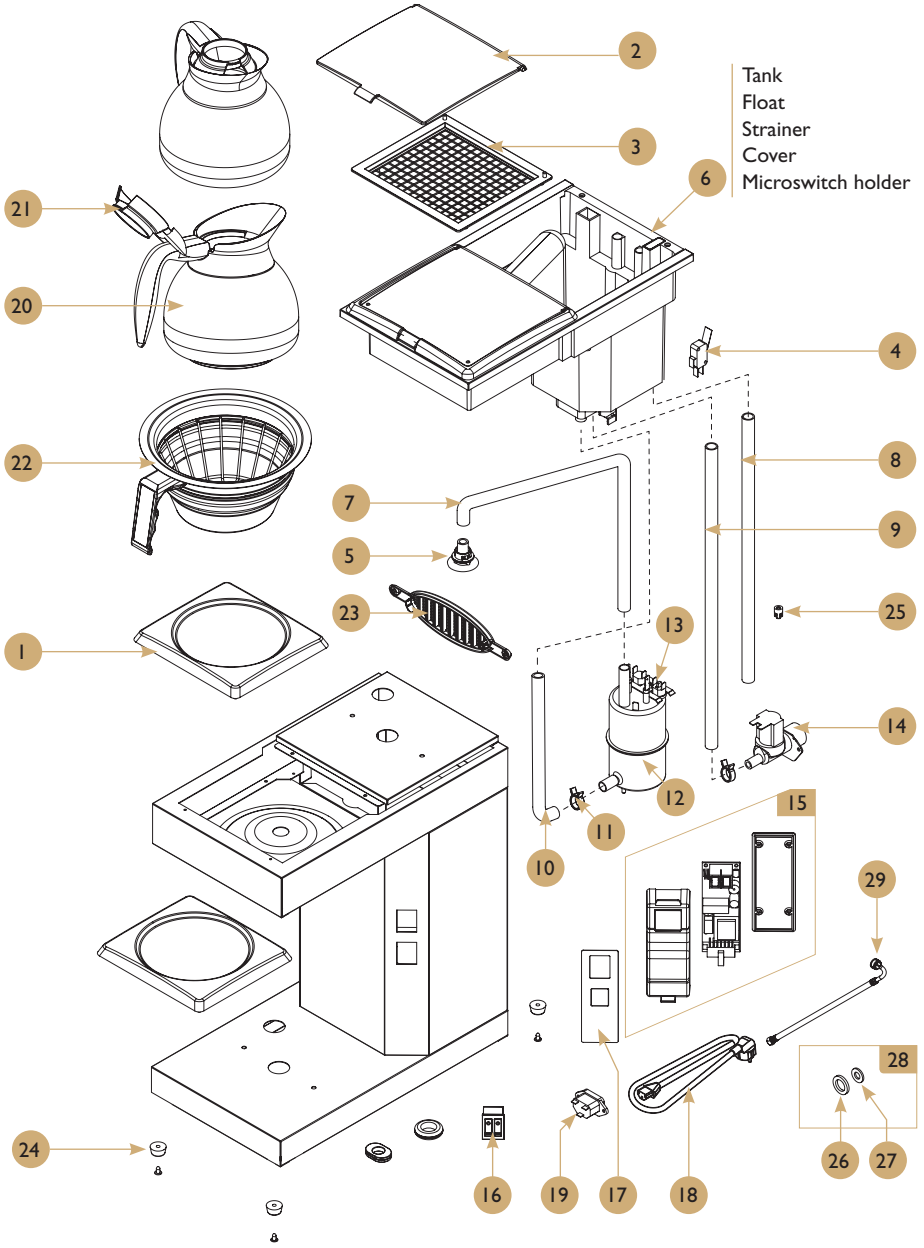
HVA/HVM 3-Phase



Note:
- Thick wire ≥ 100V (Black, Blue wire)
- Thin wire ≤ 24V

A-2

Drawing


Tank
Float
Strainer
Cover
Microswitch holder
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13
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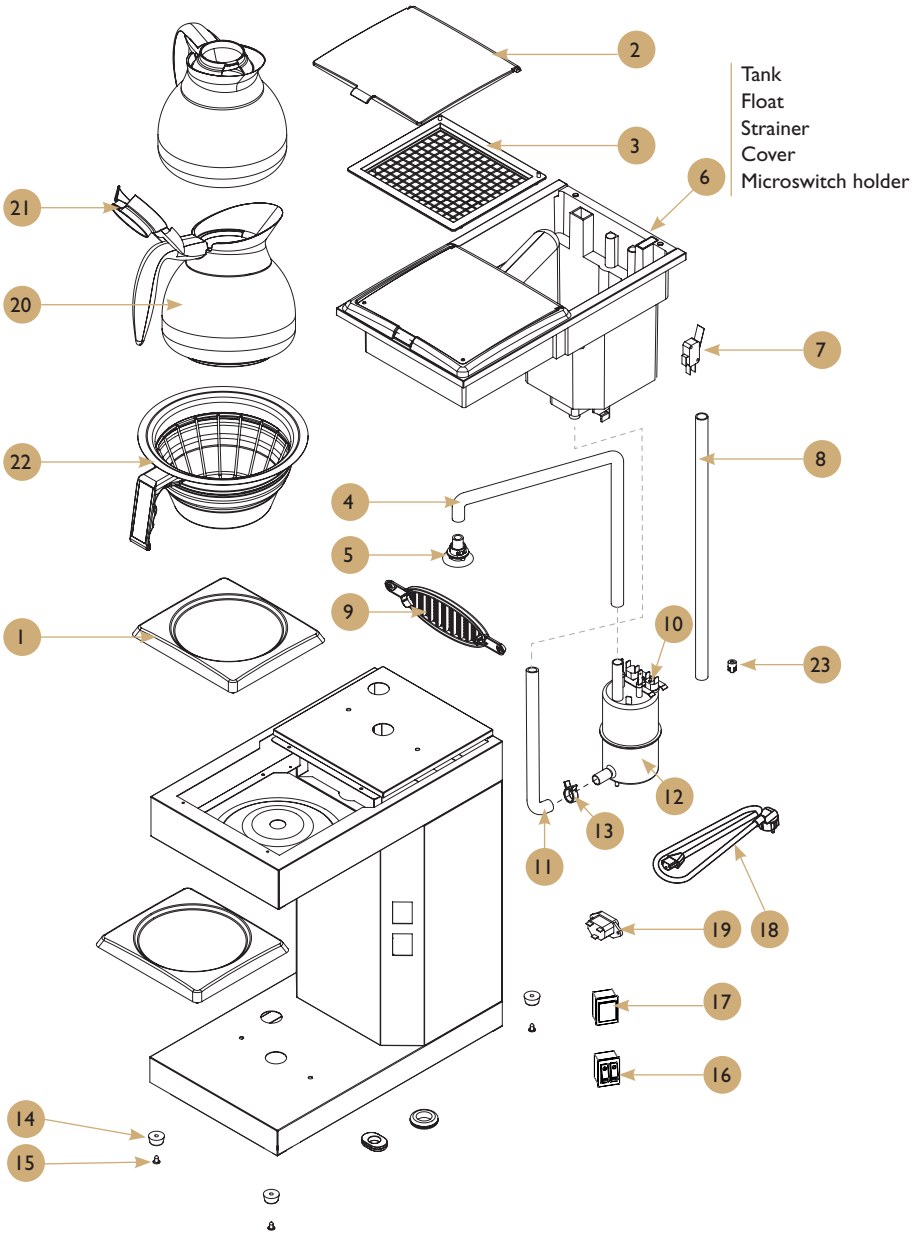
A-2

Spare parts list

POS.	Amount/Unit	Part No.	Description
1	2	120811 (230V)	Warming plate 230V/95W
1	2	1208121 (110V)	Warming plate 110V/95W
2	1	1204012	Lid of tank original
3	1	1204013	Strainer original
4	1	160821 (230V)	Micro switch tank 1.8L
4	1	1608221 (110V)	Micro switch 125V
5	1	1204016	Spray nozzle for water tank
6	1	1204015	Water tank complete 1.8L
7	1	1505041	Hot water hose 1.8L
8	1	1561036	Drainage hose 1.8L
9	1	1505022	Inlet hose 400mm
10	1	1505021	Silicon hose cold W 1.8L
11	1	140339	Clip for hose 16.4mm
12	1	1205101 (230V)	Brewing element 230V/2200W
12	1	120505 (110V)	Brewing element 110V/1600W
13	1	160212-03	Over heating protection
14	1	120620-01 (230V)	Valve inlet single 1.8L
14	1	120617 (110V)	Inlet coil 110V
15	1	1031640 (230V)	Electronic unit PCB Original
15	1	1031643 (110V)	Electronic unit PCB Original 110V
16	1	160802-04	Rocker switch double
17	1	1603854	Membran switch origi A
18	1	160565	Main supply cable / Europe
19	1	160570	Power cord inlet/Main socket
20	2	110001	Decanter CQ glass
21	1	120433	Lid, Glass decanter
22	1	1102016	Brew basket 1.8L 90 mm
23	1	120422	Air inlet plastic 1.8L
24	4	120320	Rubber feet V2
25	1	1206123	Non return valve 1.8L
26	1	1264161	Gasket DIA23.5mm x 15mm D3mm
27	1	1264160	Gasket DIA18mm x 9mm D2mm
28	1	2760094	Gasket set for inlet hose
29	1	1505042	Inlet hose 3/4"-1/2"

M-2

Drawing


Tank
Float
Strainer
Cover
Microswitch holder
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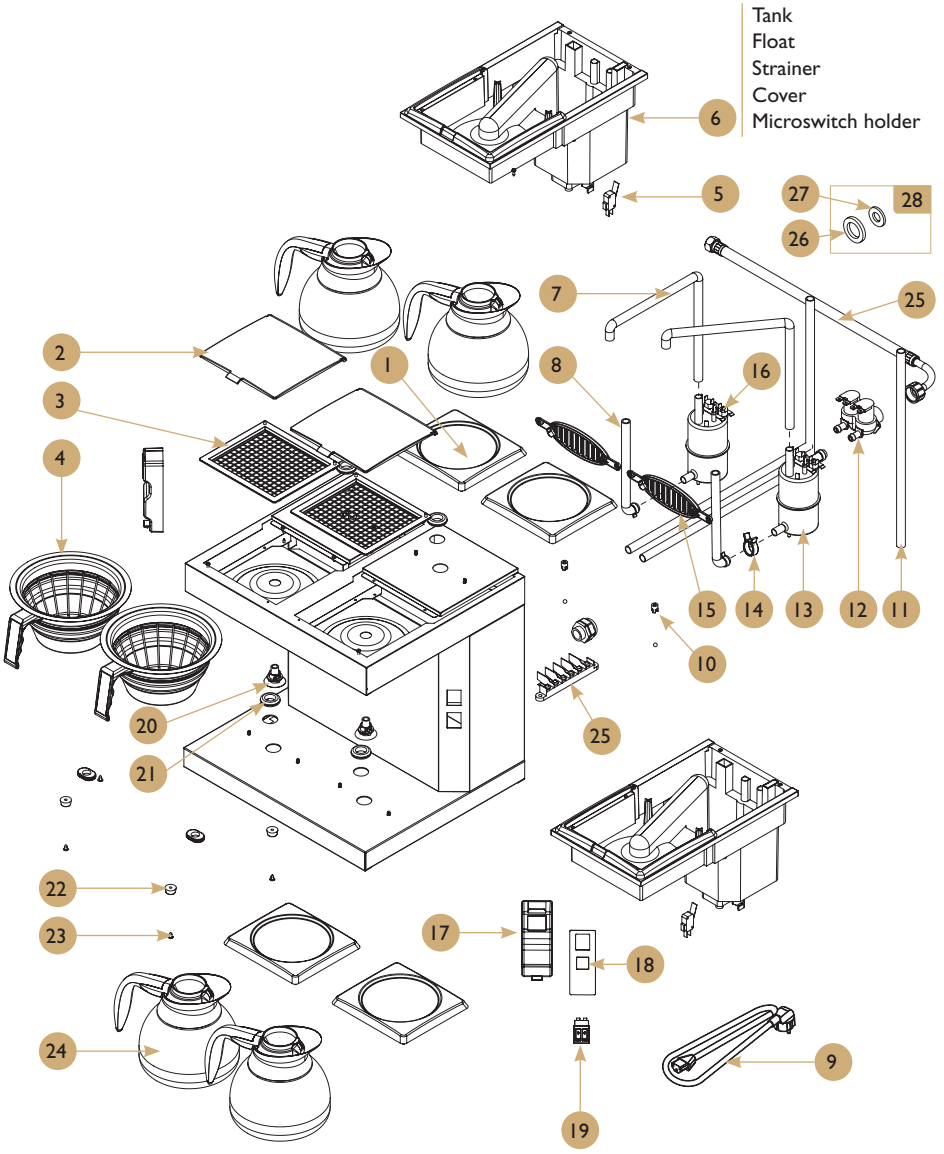
M-2

Spare parts list

POS.	Amount/Unit	Part No.	Description
1	2	120811 (230V)	Warming plate 230V/95W
1	2	1208121 (110V)	Warming plate 110V/95W
2	1	1204012	Lid of tank original
3	1	1204013	Strainer original
4	1	1505041	Silicon hose hot 1.8L
5	1	1204016	Spray nozzle for water tank
6	1	1204015	Water tank complete 1.8L
7	1	160821 (230V)	Micro switch tank 1.8L
7	1	1608221 (110V)	Microswitch 125V
8	1	1561036	Silicon hose cold long 400mm
9	1	120422	Air inlet plastic 1.8L
10	1	160212-03	Over heating protection
11	1	1505021	Silicon hose cold W 1.8L
12	1	1205101 (230V)	Brewing element 230V/2200W
12	1	120505 (110V)	Brewing element 110V/1600W
13	4	140339	Clip for hose 16.4mm
14	4	120320	Rubber feet V2
15	4	1402163	Screw M4x8
16	1	160802-04	Rocker switch double
17	1	160804-04	Brewing lamp
18	1	160565	Main supply cable / Europe
19	1	160570	Power cord inlet/Main socket
20	2	110001	Decanter glass
21	1	120433	Lid, Glass decanter
22	1	1102016	Brew basket 1.8L 90 mm
23	1	1206123	Non return valve

DA-4

Drawing


Tank
Float
Strainer
Cover
Microswitch holder
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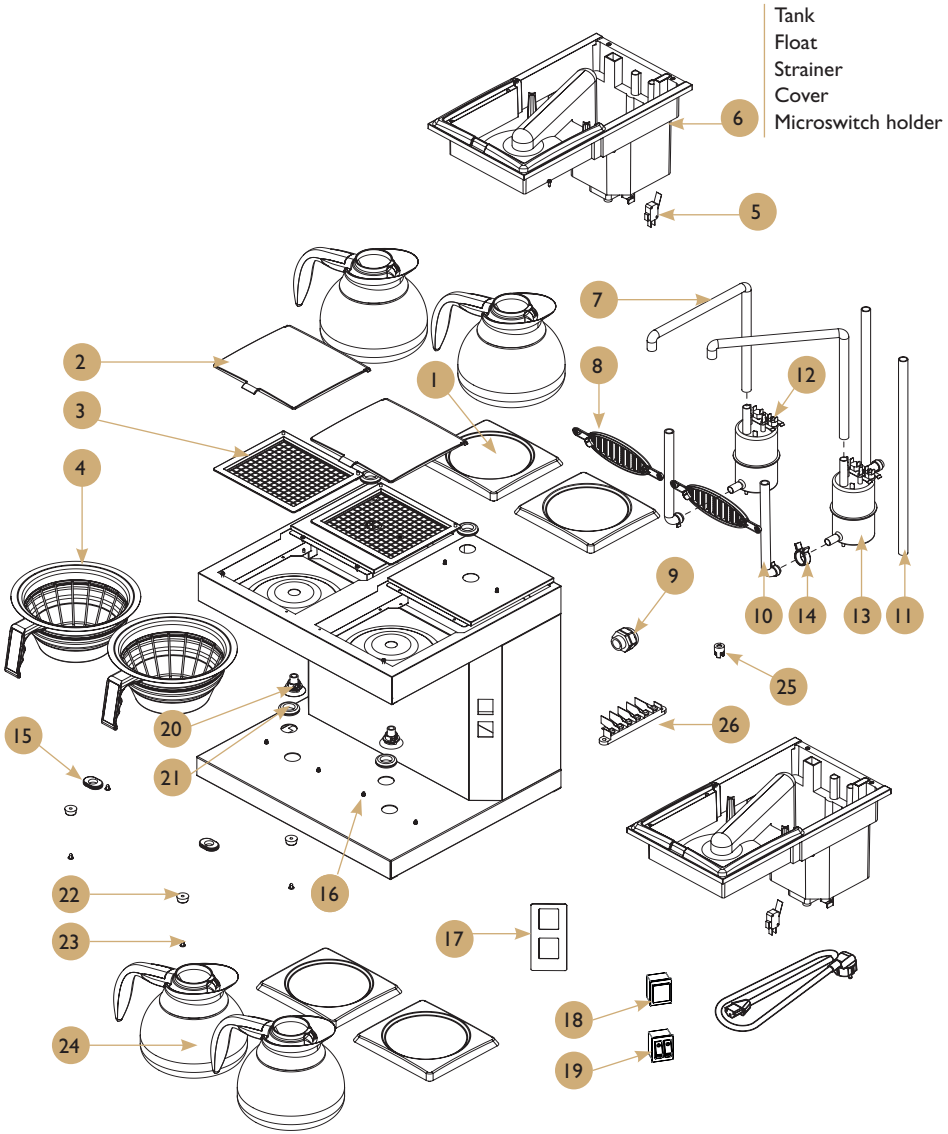
DA-4

Spare parts list

POS.	Amount/Unit	Part No.	Description
1	4	120811	Warning plate 230V/95W
2	2	1204012	Lid of tank original
3	2	1204013	Strainer
4	2	1102016	Brew basket 1.8L 90 mm
5	2	160821	Micro switch tank 1.8L
6	2	1204015	Water tank complete 1.8L
7	2	1505041	Silicon hose hot 1.8L
8	2	1505021	Silicon hose cold W 1.8L
9	1	160549	Connector
10	2	1206123	Non return valve
11	2	1561036	Silicon hose 380mm
12	1	120621-01	Inlet valve 0.95x2L Double
13	2	1205101	Brewing elemnet 230V/2200W
14	4	140339	Clip for hose 16.4mm
15	2	120422	Air inlet plastic 1.8L
16	1	160212-03	Over heating protection
17	1	1031640	Electronic unit PCB Orginal
18	2	1603854	Membran switch origi A
19	2	160802-04	Rocker switch double
20	2	1204016	Spray nozzle for water tank
21	6	160536	Gasket rubber NBR(Rubber Trp 30.0)
22	4	120320	Rubber feet V2
23	4	1402163	Screw M4x8
24	4	110001	Decanter CQ glass
25	1	1505042	Inlet hose 3/4"-1/2"
26	1	1264161	Gasket DIA23.5mm x 15mm D3mm
27	1	1264160	Gasket DIA18mm x 9mm D2mm
28	1	2760094	Gasket set for inlet hose

DM-4

Drawing


Tank
Float
Strainer
Cover
Microswitch holder
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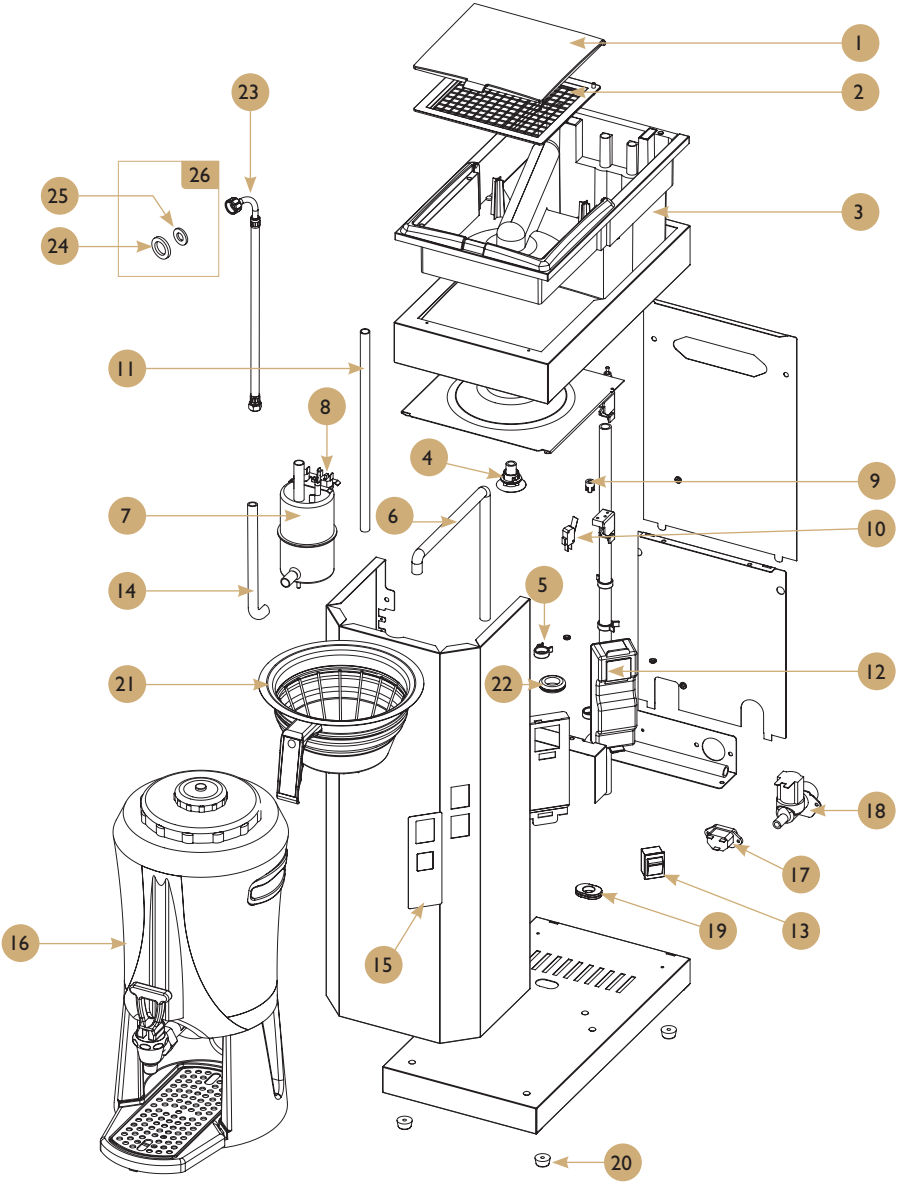
DM-4

Spare parts list

POS.	Amount/Unit	Part No.	Description
1	4	120811	Warming plate 230V/95W
2	2	1204012	Lid of tank original
3	2	1204013	Strainer
4	2	1102016	Brew basket 1.8L 90 mm
5	2	160821	Micro switch tank 1.8L
6	2	1204015	Water tank complete 1.8L
7	2	1505041	Silicon hose hot 1.8L
8	2	120422	Air inlet plastic 1.8L
9	1	1605651	Grommet power cable
10	2	1505021	Silicon hose cold W 1.8L
11	2	1561036	Silicon hose 380mm
12	1	160212-03	Over heating protection
13	2	1205101	Brewing elemnet 230V/2200W
14	4	140339	Clip for hose 16.4mm
15	2	1505063	Bottom cover rubber
16	12	1402150	Screw T20,M4X8
17	1	1603855	Overlay original M
18	1	160802-04	Rocker switch double
19	1	160804-04	Brewing lamp
20	2	1204016	Spray nozzle for water tank
21	6	160536	Gasket rubber NBR(Rubber Trp 30.0)
22	4	120320	Rubber feet V2
23	4	1402163	Screw M4x8
24	4	110001	Decanter CQ glass
25	1	1206123	Non return valve
26	1	160549	Connector

Mega Gold A

Drawing



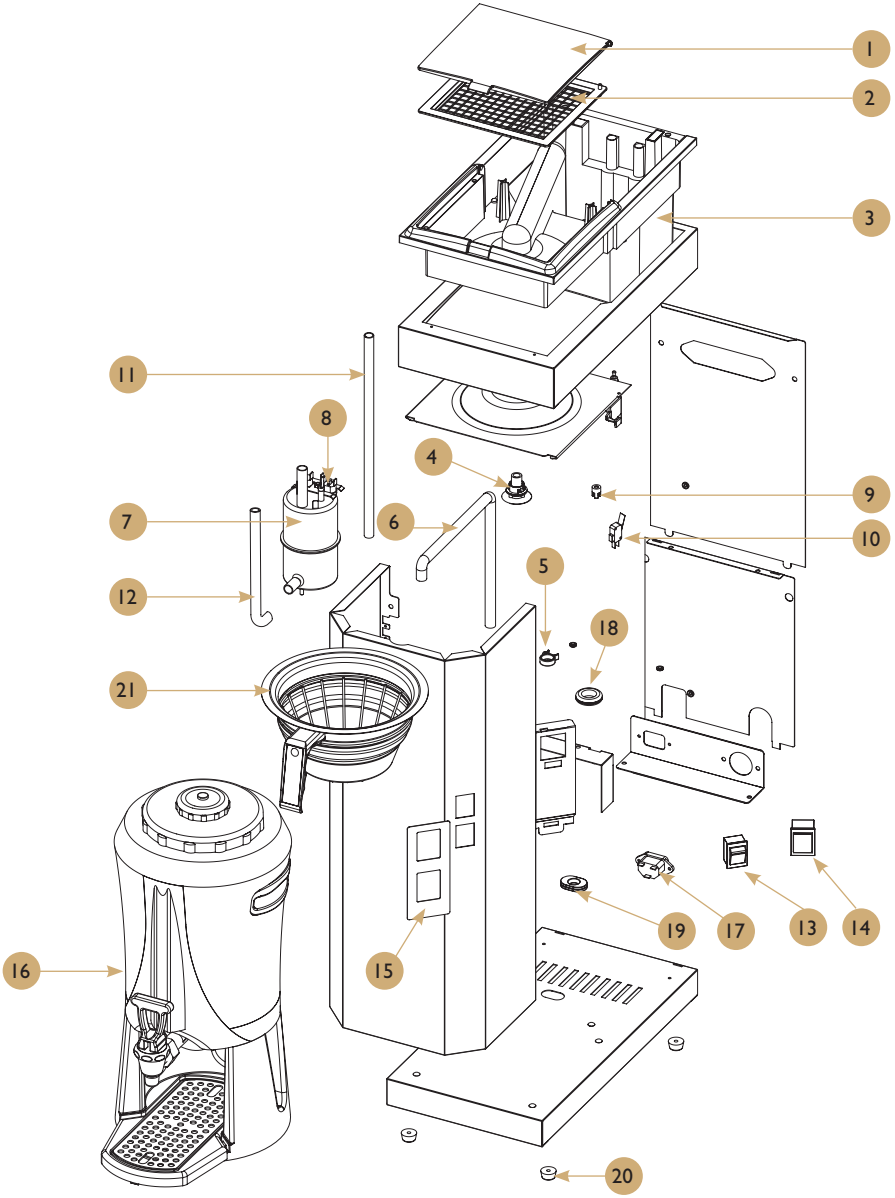
Mega Gold A

Spare parts list

POS.	Amount/Unit	Part No.	Description
1	1	1204012	Lid
2	1	1204013	Strainer
3	1	1204015	Water tank complete 1.8L
4	1	1204016	Spray nozzle for water tank
5	4	140339	Clip for hose 16.4mm
6	1	1505041	Siliocn hose hot W 1.8L
7	1	1205101	Brewing element 230V/2200W
8	1	160212-03	Over heating protection
9	1	1206123	Non return valve 1.8L
10	1	160821	Micro switch tank 1.8L
11	1	1561036	Overflow hose 1.8L
12	1	1031640	Electronic unit PCB Original
13	1	160801-04	Rocker switch single(orange)
14	1	1505021	Silicon hose cold W 1.8L
15	1	1603854	Membran switch origi A
16	1	1103303	Serving station 2.5L
17	1	160570	Power cord inlet/ Main socket
18	1	120620-01	Valve inlet single 1.8L
19	1	1505063	Bottom cover rubber
20	4	120320	Rubber feet
21	1	1102016	Brew basket 1.8L
22	6	160536	Gasket rubber NBR(Rubber Trp 30.0)
23	1	1505042	Inlet hose 3/4"-1/2"
24	1	1264161	Gasket DIA23.5mm x 15mm D3mm
25	1	1264160	Gasket DIA18mm x 9mm D2mm
26	1	2760094	Gasket set for inlet hose

Mega Gold M

Drawing



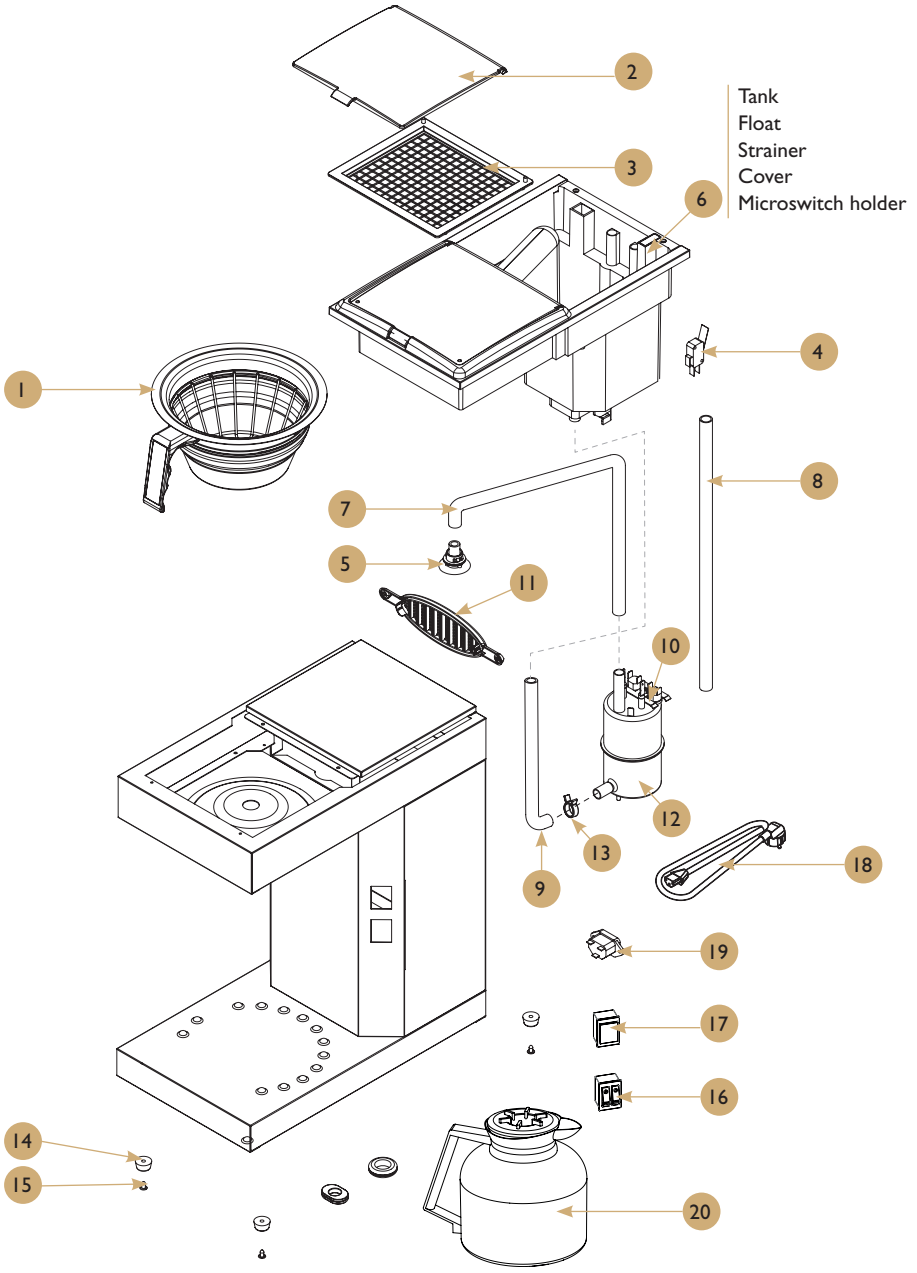
Mega Gold M

Spare parts list

POS.	Amount/Unit	Part No.	Description
1	1	1204012	Lid
2	1	1204013	Strainer
3	1	1204015	Water tank complete 1.8L
4	1	1204016	Spray nozzle for water tank
5	4	140339	Clip for hose 16.4mm
6	1	1505041	Siliocn hose hot W 1.8L
7	1	1205101	Brewing element 230V/2200W
8	1	160212-03	Over heating protection
9	1	1206123	Non return valve 1.8L
10	1	160821	Microswitch tank 1.8L
11	1	1561036	Overflow hose 1.8L
12	1	1505021	Silicon hose cold W 1.8L
13	1	160801-04	Rocker switch single
14	1	160804-04	Brewing lamp
15	1	1603855	Overlay original M
16	1	1103303	THERMOS station 2.5L
17	1	160570	Power cord inlet/ Main socket
18	6	160536	Gasket rubber NBR(Rubber Trp 30.0)
19	1	1505063	Bottom cover rubber
20	4	120320	Rubber feet
22	1	1102016	Brew basket 1.8L

Thermos Office

Drawing



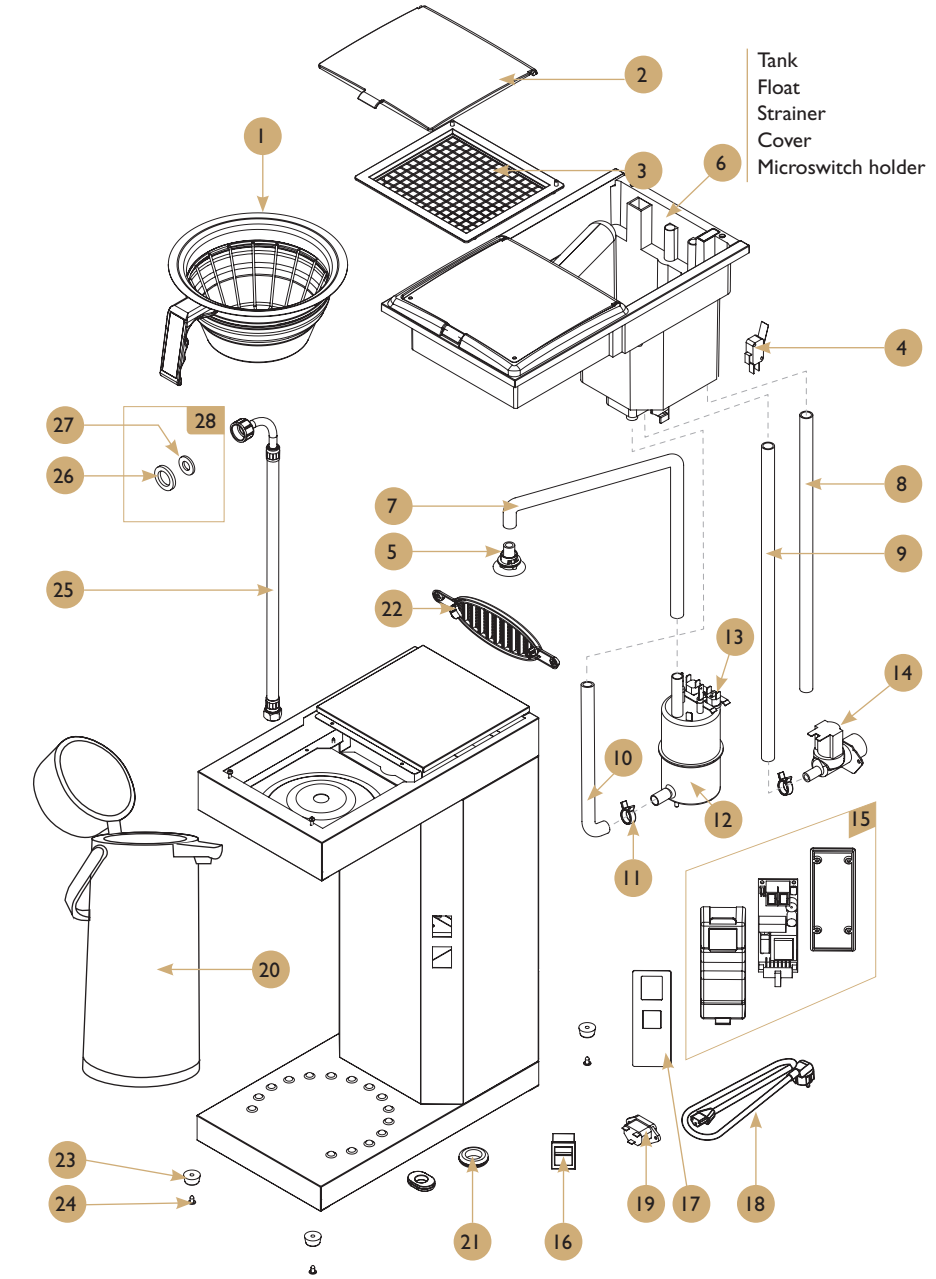
Thermos Office

Spare parts list

POS.	Amount/Unit	Part No.	Description
1	1	1102016	Brew basket 1.8L 90 mm
2	1	1204012	Lid of tank original
3	1	1204013	Strainer original
4	1	160821	Micro switch tank 1.8L
5	1	1204016	Spray nozzle for water tank
6	1	1204015	Water tank complete 1.8L
7	1	1505041	Silicon hose hot 1.8L
8	1	1561036	Over flow hose 1.8L
9	1	1505021	Silicon hose cold W 1.8L
10	1	160212-03	Over heating protection
11	1	120422	Air inlet plastic 1.8L
12	1	1205101	Brewing element 230V/2200W
13	4	140339	Clip for hose 16.4mm
14	4	120320	Rubber feet V2
15	4	1402163	Screw M4x8
16	1	160802-04	Rocker switch double
17	1	160804-04	Brewing lamp
18	1	160565	Main supply cable / Europe
19	1	160570	Power cord inlet / Main socket
20	1	1103256	Thermos 1.9L

Thermos A

Drawing



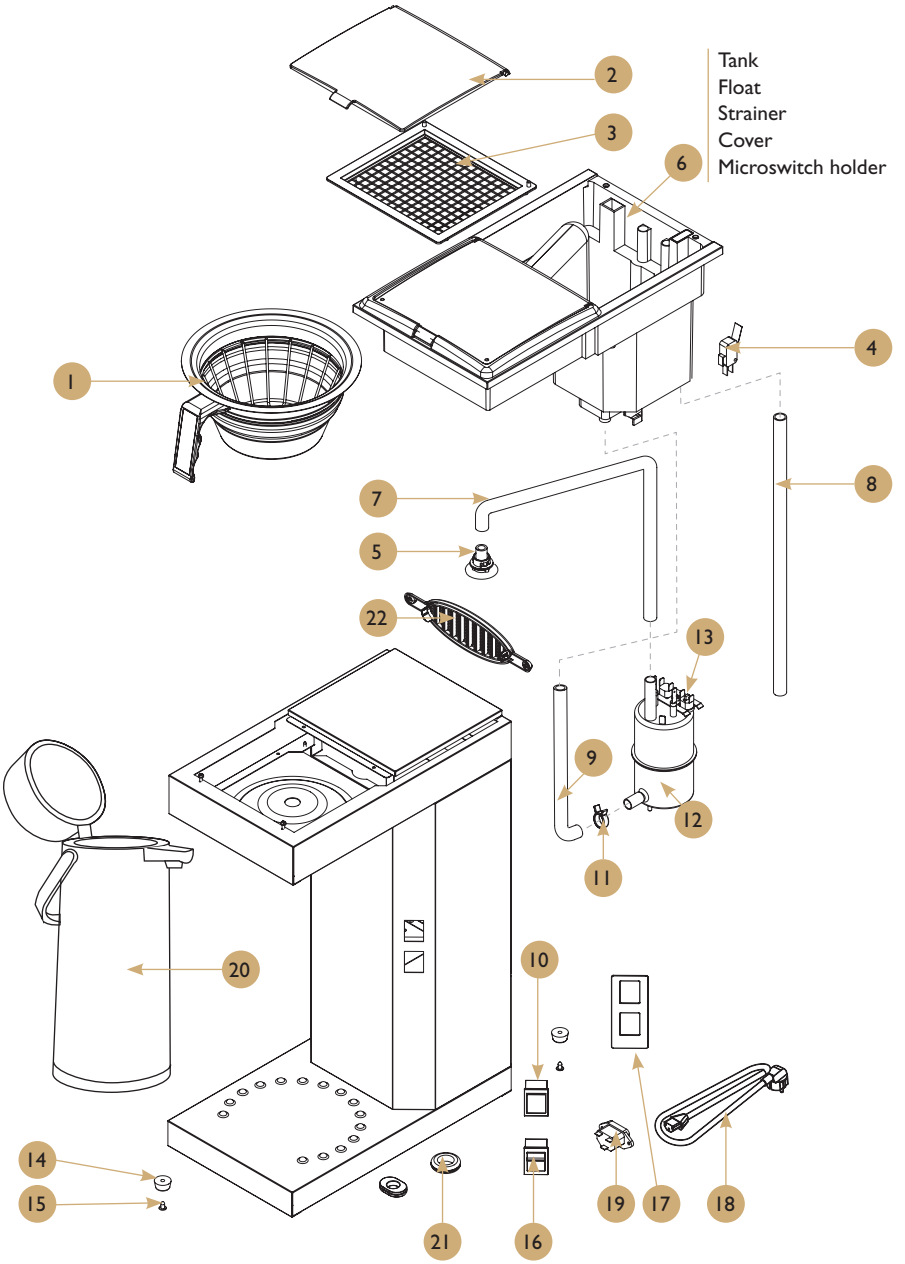
Thermos A

Spare parts list

POS.	Amount/Unit	Part No.	Description
1	1	1102016	Brew basket 1.8L 90 mm
2	1	1204012	Lid of tank original
3	1	1204013	Strainer original
4	1	160821	Micro switch tank 1.8L
5	1	1204016	Spray nozzle for water tank
6	1	1204015	Water tank complete 1.8L
7	1	1505041	Hot water hose 1.8L
8	1	1561036	Drainage hose 1.8L
9	1	1505022	Inlet hose 500mm
10	1	1505021	Silicon hose cold W 1.8L
11	1	140339	Clip for hose 16.4mm
12	1	1205101	Brewing element 230V/2200W
13	1	160212-03	Over heating protection
14	1	120620-01	Valve inlet single 1.8L
15	1	1031640	Electronic unit PCB Original
16	1	160801-04	Rocker switch single(orange)
17	1	1603854	Membran switch Original A
18	1	160565	Main supply cable / Europe
19	1	160570	Power cord inlet/Main socket
20	1	1103184	Thermos 2.2L
21	6	160536	Gasket rubber NBR(Rubber Trp 30.0)
22	1	120422	Air inlet plastic 1.8L
23	4	120320	Rubber feet V2
24	4	1402163	Screw M4x8
25	1	1505042	Inlet hose 3/4"-1/2"
26	1	1264161	Gasket DIA23.5mm x 15mm D3mm
27	1	1264160	Gasket DIA18mm x 9mm D2mm
28	1	2760094	Gasket set for inlet hose

Thermos M

Drawing



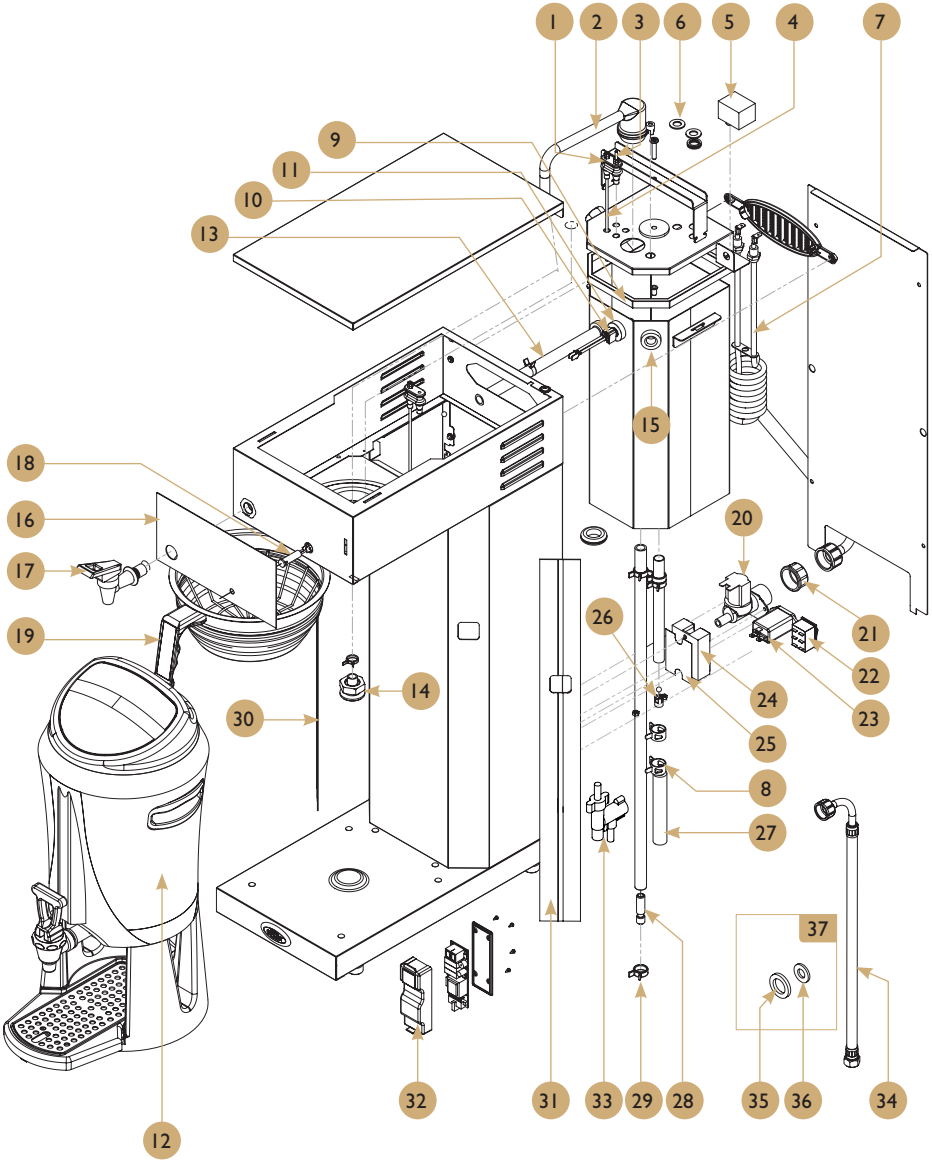
Thermos M

Spare parts list

POS.	Amount/Unit	Part No.	Description
1	1	1102016	Brew basket 1.8L 90 mm
2	1	1204012	Lid of tank original
3	1	1204013	Strainer original
4	1	160821	Micro switch tank 1.8L
5	1	1204016	Spray nozzle for water tank
6	1	1204015	Water tank complete 1.8L
7	1	1505041	Hot water hose 1.8L
8	1	1561036	Over flow hose 1.8L
9	1	1505021	Silicon hose cold W 1.8L
10	1	160804-04	Brewing lamp
11	1	140339	Clip for hose 16.4mm
12	1	1205101	Brewing element 230V/2200W
13	1	160212-03	Over heating protection
14	4	120320	Rubber feet V2
15	4	1402163	Screw M4x8
16	1	160801-04	Rocker switch single(orange)
17	1	1603855	Overlay original M
18	1	160565	Main supply cable / Europe
19	1	160570	Power cord inlet/Main socket
20	1	1103184	Thermos 2.2L
21	6	160536	Gasket rubber NBR(Rubber Trp 30.0)
22	1	120422	Air inlet plastic 1.8L

Cater

Drawing



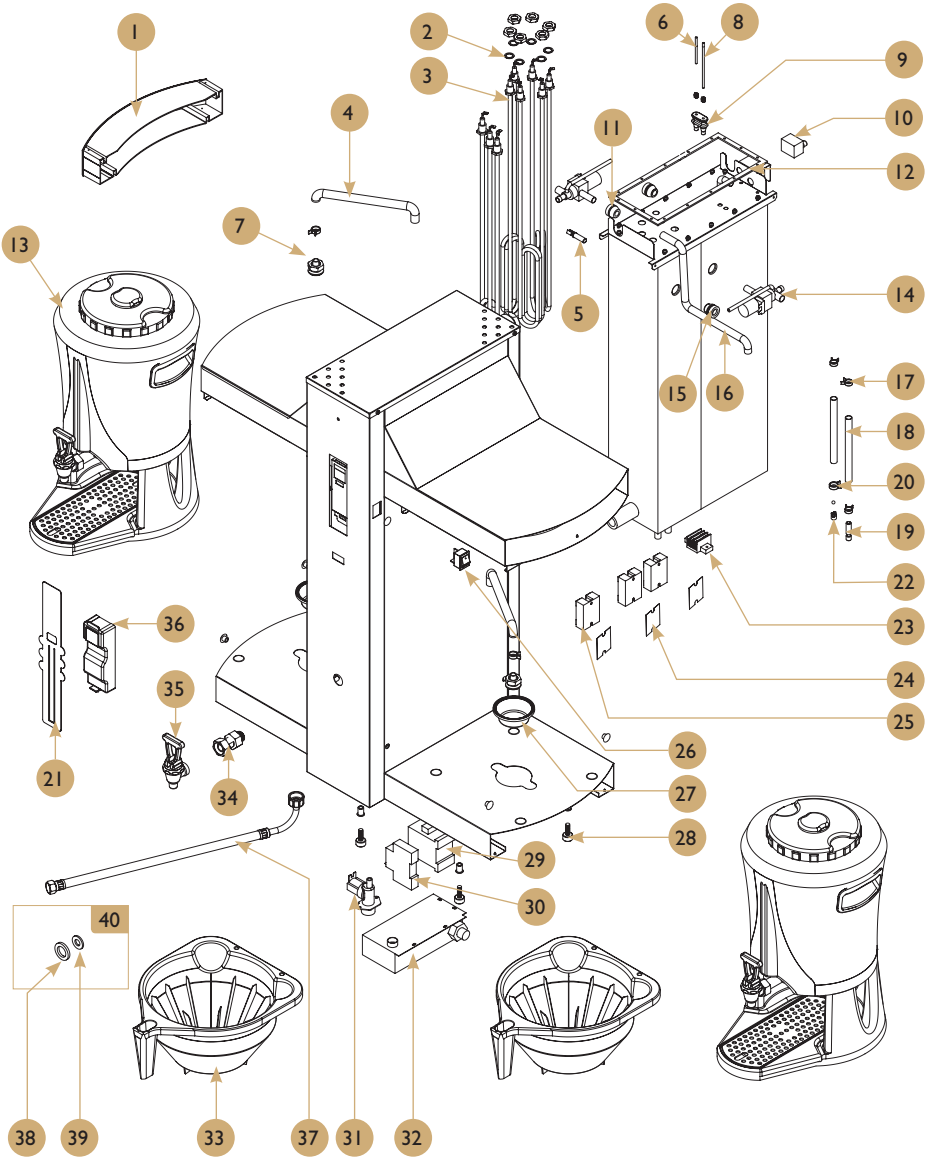
Cater

Spare parts list

POS.	Amount/Unit	Part No.	Description
1	2	1605362	Double seal level sensor
2	1	1031504	Outlet tube cater
3	1	1205305	Sensor pin 47mm
4	1	1205303	Sensor pin long 160mm
5	1	220220	High limit switch
6	2	1206507	Fiber washer
7	1	1601311 (230V)	Element 2200W/230V with ss nuts
7	1	1601311 (110V)	Element 1600W/120V
8	2	1364004	Clamp spring steel
9	1	1206587	Tank gasket
10	1	1604135	Ntc thermistor belong
11	1	1605361	Seal for NTC
12	1	1103303	Serving station 2.5L
13	1	1031505	Hot water tube
14	1	1031801	Spray nozzle tower
15	1	160538-03	Plug for water outlet
16	1	1603863	Membrane switch
17	1	1201924	Hot water faucet
18	1	1664002	Red indicating lamp 230V
19	1	1102011	Brew basket 110mm
20	1	120620-01 (230V)	Valve inlet single 1.8L
20	1	120620-01 (110V)	Inlet coil 110-120V
21	1	1403401	Inlet valve plug with silicon seal
22	1	160801-04	Rocker switch single(orange)
23	1	160571	Emi fliter with ac socket
24	1	1604203	Solid state 25A
25	1	1206581	Seal solid state
26	2	1206123	Non return valve
27	1	1561009	Silicone tube braided 1m ID-9.53mm
28	1	1403400	Pp plug for drainage hose
29	4	1403390	Clip for hose 16.4mm
30	1	1603866	Overlay cater without hole
31	1	1603865	Overlay cater with hole
32	1	1031646 (230V)	Electronic unit PCB Cater
32	1	1031645 (110V)	Electronic unit PCB 110V Cater
33	1	160193	PDS valve
34	1	1505042	Inlet hose 3/4"-1/2"
35	1	1264161	Gasket DIA23.5mm x 15mm D3mm
36	1	1264160	Gasket DIA18mm x 9mm D2mm
37	1	2760094	Gasket set for inlet hose

Tower

Drawing



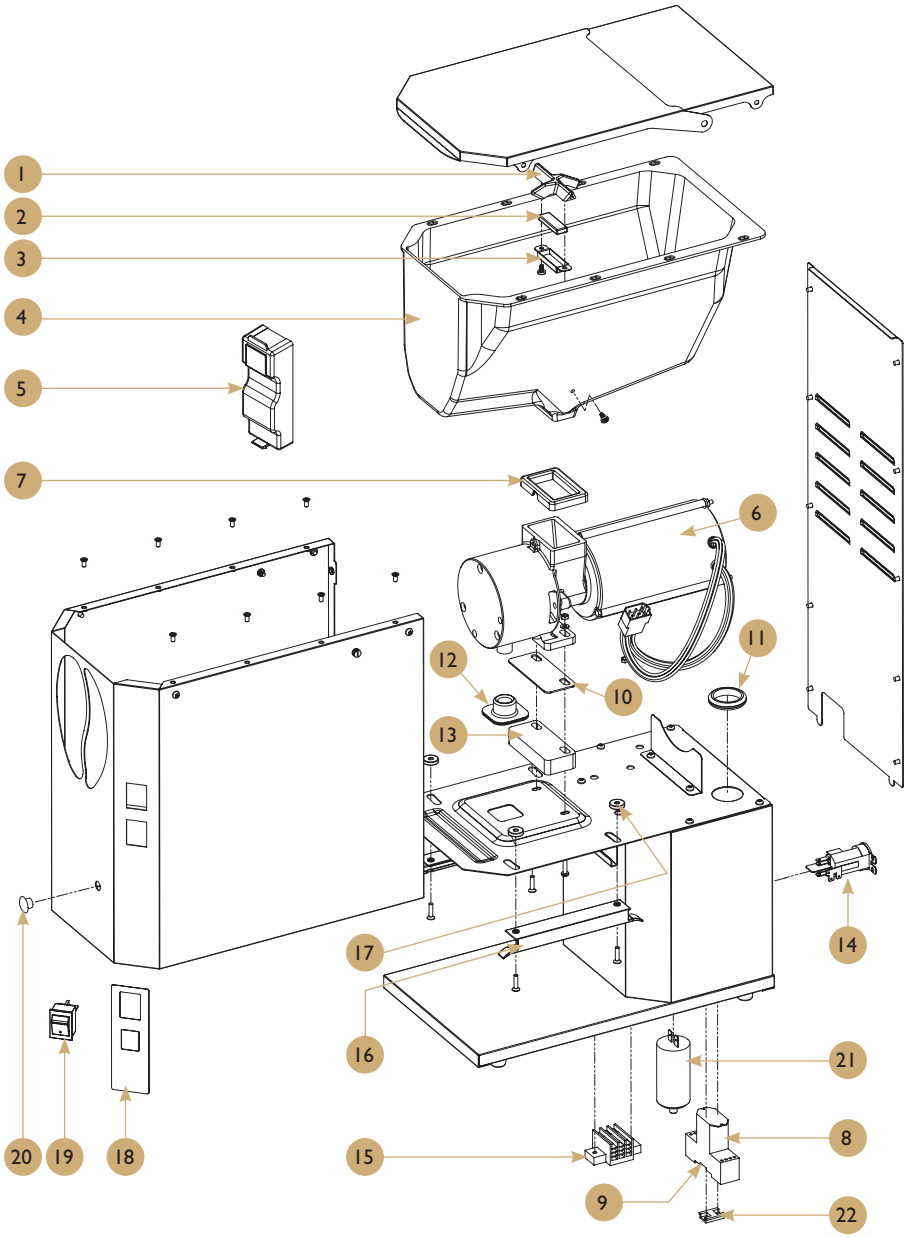
Tower

Spare parts list

POS.	Amount/Unit	Part No.	Description
1	4	1102122	End cover
2	6	1206507	Fiber washer
3	1	1601312	Element 3000W
4	2	1561028	Silicon outlet tube
5	1	1604135	NTC thermistor
6	1	1205302	Sensor short (55mm)
7	2	1031801	Spray nozzle Tower
8	2	1205301	Sensor long (90mm)
9	2	1605362	Double seal level sensor
10	1	220220	High limit switch
11	2	160538-03	Seal for outlet valve
12	1	1206586	Gasket tank tower
13	2	1103302	Serving station 5L
14	2	160230	Solenoid valve oulet 230V
15	2	1605361	Seal for NTC
16	1	1031502	Tube for overflow
17	5	140330	Clamp 13.3mm
18	2	1505022	Silicon hose cold long (50 cm)
19	2	1403400	Pp plug for drainage hose
20	5	140339	Clip for hose 16.4mm
21	1	1603856	Membrane switch Tower
22	1	1206123	Non return valve
23	1	160351	Connecter PA80 FF
24	3	1605361	Seal for solid state
25	3	1604203	Solid state 25A
25	3	1604204	Solid state 50A
26	1	C60900043	Power switch (black)
27	2	1104330	Drip cup
28	4	120316	Adjustable foot
29	1	1602231	Relay 230V VAC
30	1	160429-02	Fuse automatic
31	1	120634	Valve single 5L/min
32	1	1604393	Electronic filter
33	2	1102131	Brewbasket 5L
34	1	1802120	Connection faucet short
35	1	120200-02	Faucet metal black top
36	1	1031642	Electronic unit PCB Tower
37	1	1505042	Inlet hose 3/4"-1/2"
38	1	1264161	Gasket DIA23.5mm x 15mm D3mm
39	1	1264160	Gasket DIA18mm x 9mm D2mm
40	1	2760094	Gasket set for inlet hose

Grinder Original

Drawing



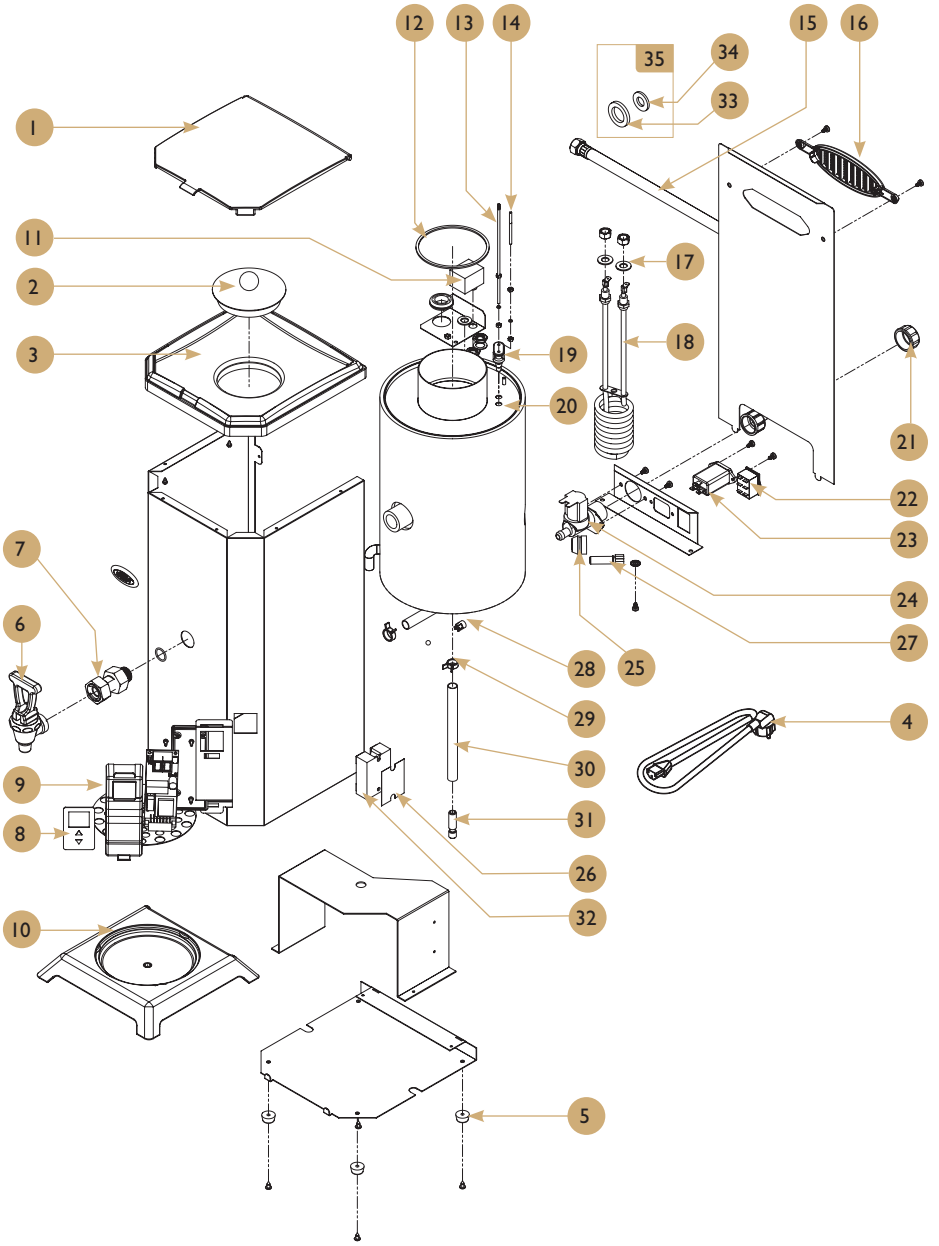
Grinder Original

Spare parts list

POS.	Amount/Unit	Part No.	Description
1	1	1364001	Finger Protection
2	1	1608281	Magnet 39x13x6mm
3	1	1364002	Metal Plate for finger protection
4	1	1105517	Bean Hopper
5	1	1031647	Electronic unit PCB Grinder
6	1	1604752	Grinder EK-21
7	1	1561004	Sealing Rbbber
8	1	160245	Relay 230V C7-A20
9	1	160247	Chassis adapter
10	1	1561002	Base silcon Grinder
11	1	1204651	Rubber trp 40
12	1	1561003	Outlet tube sealing
13	1	1264009	Nylon base Grinder
14	1	160522	Power cable fixed 16A 250V
15	1	160351	Connecter PA80 FF
16	2	1264013	Nylon Slide Guide
17	4	1561005	Nylon Bushing
18	1	C60900043	Power switch (Black)
19	1	1505076	Rubber Plug,10mm black
20	1	1505076	Rubber Plug,10mm black
21	1	832329	Capacitor
22	1	160246	Socket to V7-Relay

HVA

Drawing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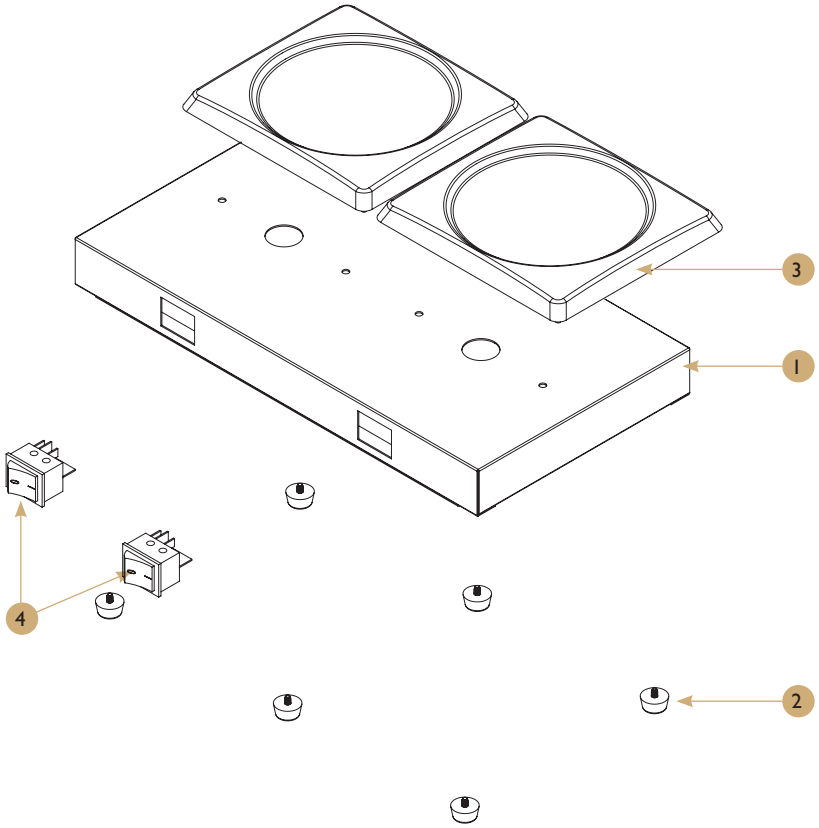
HVA

Spare parts list

POS.	Amount/Unit	Part No.	Description
1	1	1304061	Lid plastic HVA
2	1	1031301	HVA lid
3	1	1304062	Top plastic HVA
4	1	160565	Power cord european 16A250V
5	4	120320	Rubber feet V2
6	1	120200-02	Faucet metal black top
7	1	1802120	Connection faucet short
8	1	1603853	Membrane switch HVA
9	1	1031641	Electronic unit PCB HVA
10	1	1304063	Drip tray HVA
11	1	220221	High limit switch short with connect
12	1	1206589	Gasket tank
13	1	1205303	Sensor HVA tall(160mm)
14	1	1205302	Sensor short (55mm)
15	1	1505042	Inlet hose 3/4”-1/2”
16	1	120422	Air vent
17	1	1206507	Fiber washer
18	1	1601311	Element 2200W/230V with SS nuts
19	1	1605362	Double seal level sensor
20	1	1203527	Tank complete HVA
21	1	1403401	Inlet valve plug with silicon seal
22	1	160801-04	Rocker switch single
23	1	160571	Emi fliter with AC socket
24	1	120624-01	Single valve 2.5L/min
25	1	1605361	Seal NTC
26	1	1206581	Seal solid state
27	1	1604135	NTC thermistor belong
28	1	1206123	Non return valve
29	3	140330	Clamp 13.3mm
30	2	1505022	Silicon hose cold long (50cm)
31	1	1403400	PP plug for drainage hose
32	1	1604203	Solid state 25A
33	1	1264161	Gasket DIA23.5mm x 15mm D3mm
34	1	1264160	Gasket DIA18mm x 9mm D2mm
35	1	2760094	Gasket set for inlet hose

V-2

Drawing



Spare parts list

POS.	Amount/Unit	Part No.	Description
1	1	2401101	Chassi V-2
2	6	120320	Rubber Feet
3	2	120811	Warming plate 230V/95W
4	2	C60900043	Power Switch Black

Serving station 2.5L

Drawing

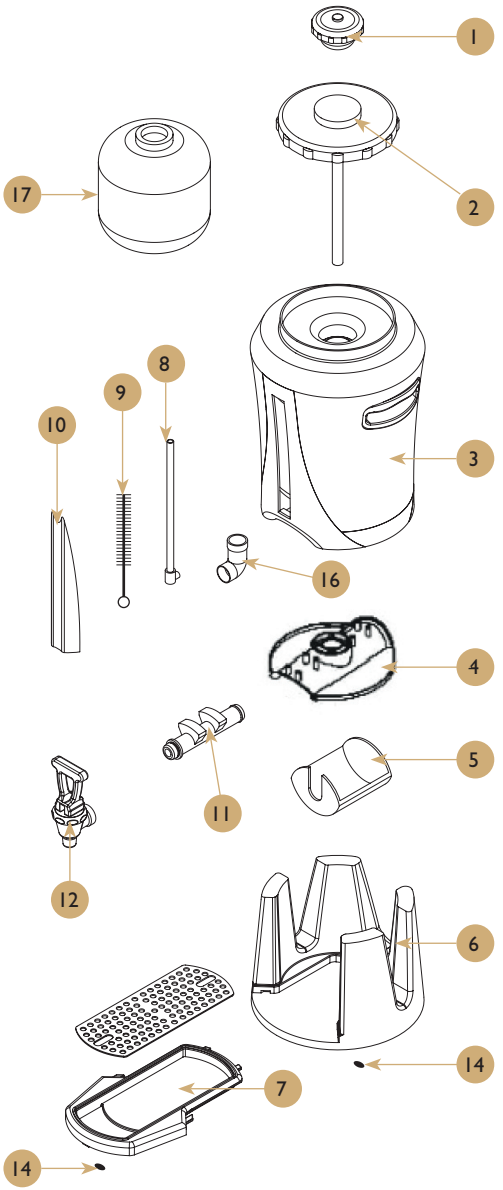
Serving station 2.5L

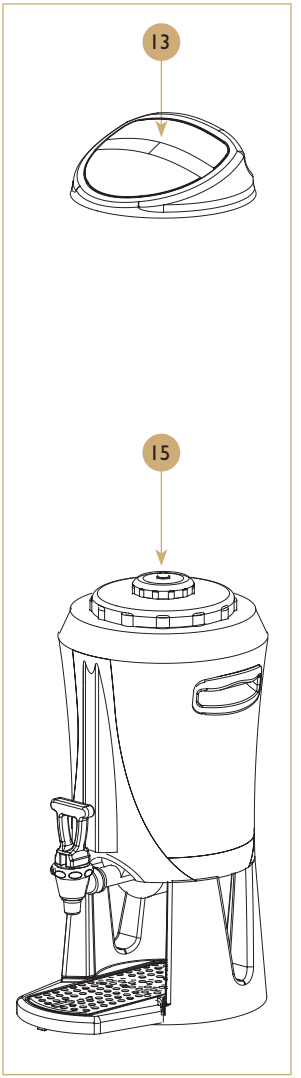
Spare parts list

POS.	PCS	Part No.	Description
1	1	1103351	Lid Cover with Tie
2	1	1103452	Brew-Thru Lid with SS Tube (2.5L)
3	1	1103453	Main housing with Upp 2.5L
4	1	1103455	Lower Housing 2.5L
5	1	1103456	Outlet Tube Jacket (2.5L)
6	1	1103457	Stand 2.5L
7	1	1103458	Drip Tray (2.5L serving station)
8	1	1103459	Glass Tube (2.5L serving station)
9	1	1103360	Cleaning Brush for Level Indicator
10	1	1103461	Water Indicator Lens (2.5L)
11	1	1103462	Outlet Tube (2.5L serving sation)
12	1	1103363	Faucet, Crown
13	1	1103371	Display Top Serving Station.2.5L
14	5	1103364	Rubber feet
15	1	1103303	Serving Station 2.5L
16	1	1103366	Outlet Connector 2.5L Servn.stn

Serving station 5L

Drawing



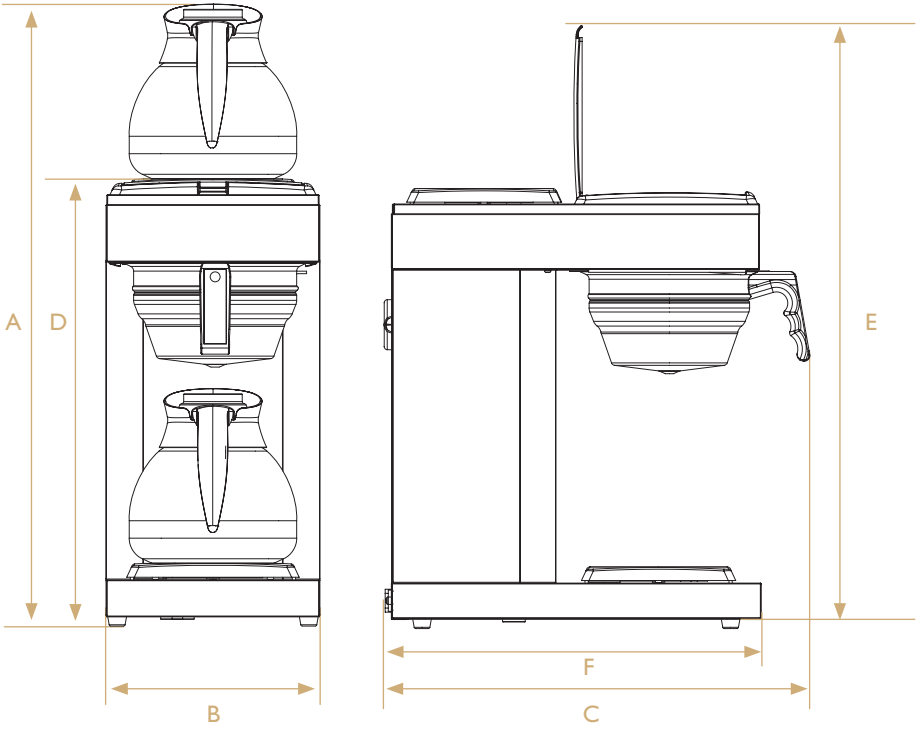


Serving station 5L

Spare parts list

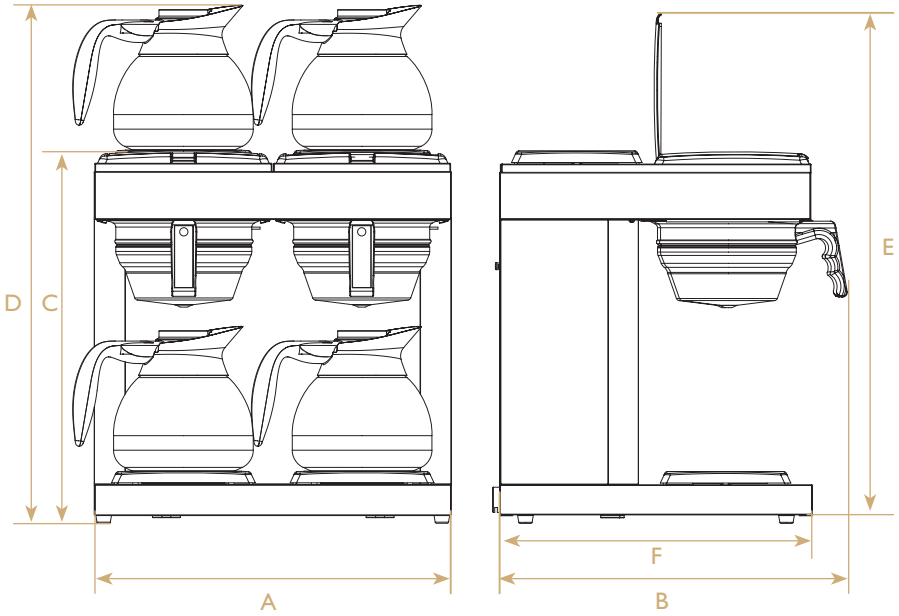
POS.	PCS	Part No.	Description
1	1	1103351	Lid Cover with Tie
2	1	1103352	Brew-Thru Lid with SS Tube (5L)
3	1	1103353	Main Housing with Upper Housing
4	1	1103355	Lower Housing 5L
5	1	1103356	Outlet Tube Jacket (5L)
6	1	1103357	Stand
7	1	1103358	Drip Tray (5L serving station)
8	1	1103359	Glass Tube (5L serving station)
9	1	1103360	Cleaning Brush for Level Indicator
10	1	1103361	Water Indicator Lens (5L)
11	1	1103362	Outlet Tube (5L serving sation)
12	1	1103363	Faucet, Crown
13	1	1103370	Display Top Serving Station 5L
14	5	1103364	Rubber feet
15	1	1103302	Serving Station 5L
16	1	1103366	Outlet Connector 2.5L Servn.stn
17	1	1103354	SS Vacuum Bottle, Silicone gasket

A-2/M-2



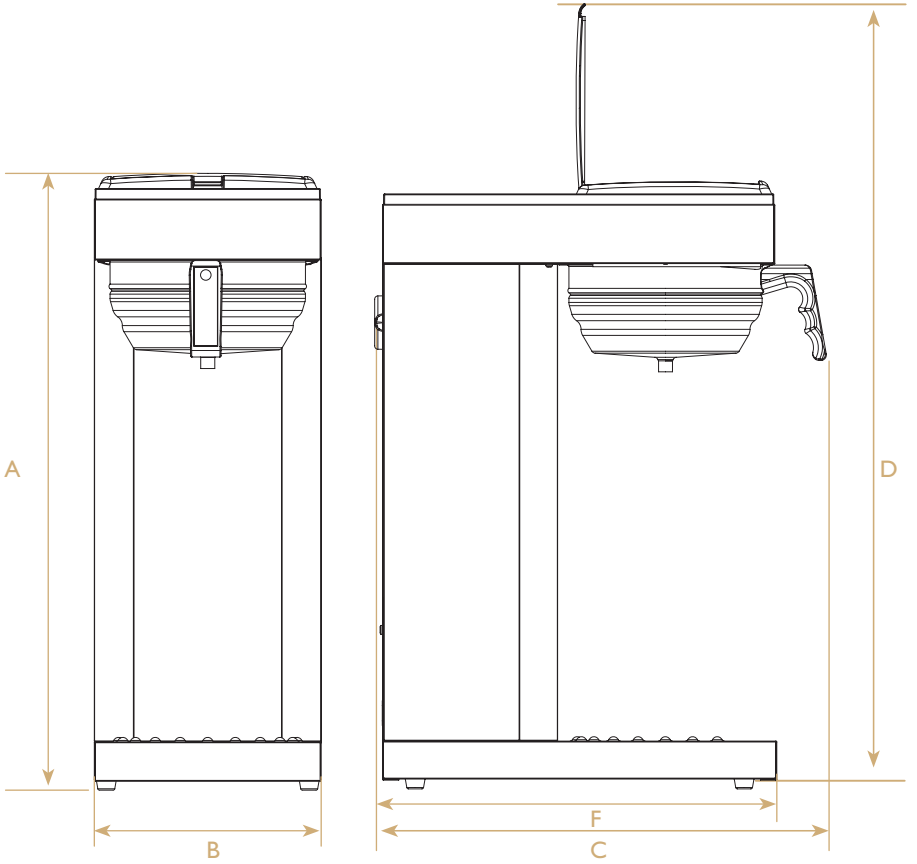
Model	A	B	C	D	E	F
A-2/M-2	595mm	205mm	410mm	428mm	578mm	360mm

DA-4/DM-4



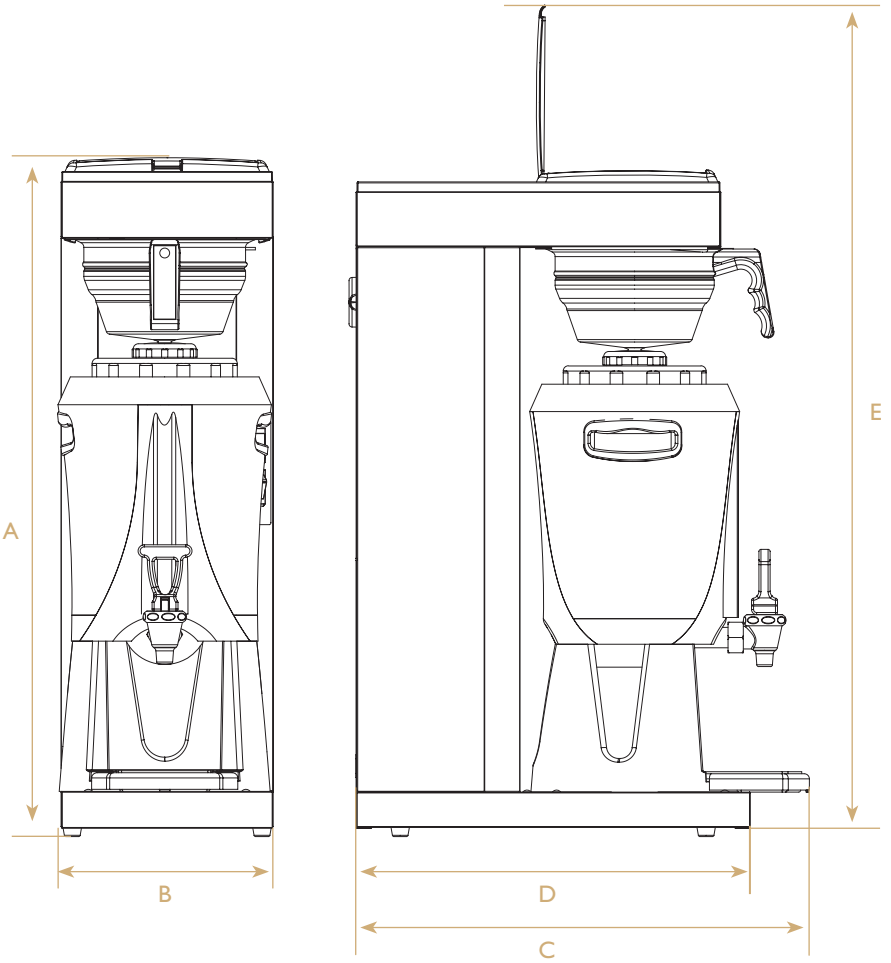
Model	A	B	C	D	E	F
DA-4/DM-4	410mm	410mm	428mm	595mm	578mm	360mm

Thermos A/M



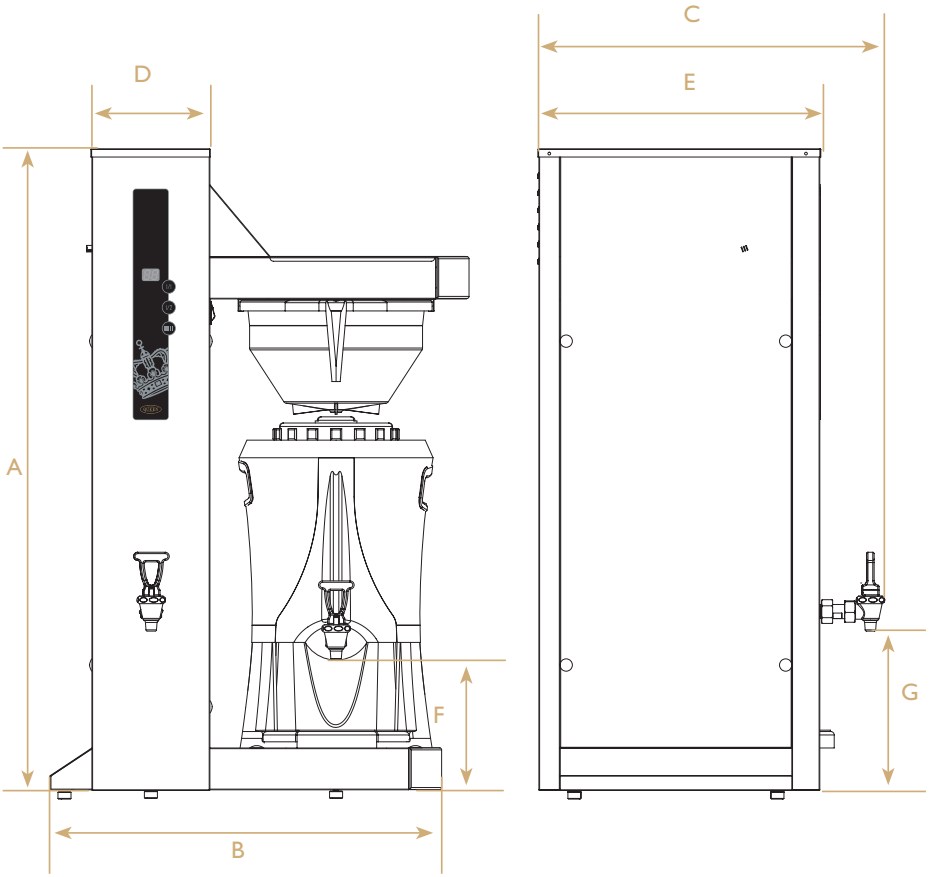
Model	A	B	C	D	F
Thermos A/M	557mm	205mm	410mm	708mm	360mm

Mega Gold A/M



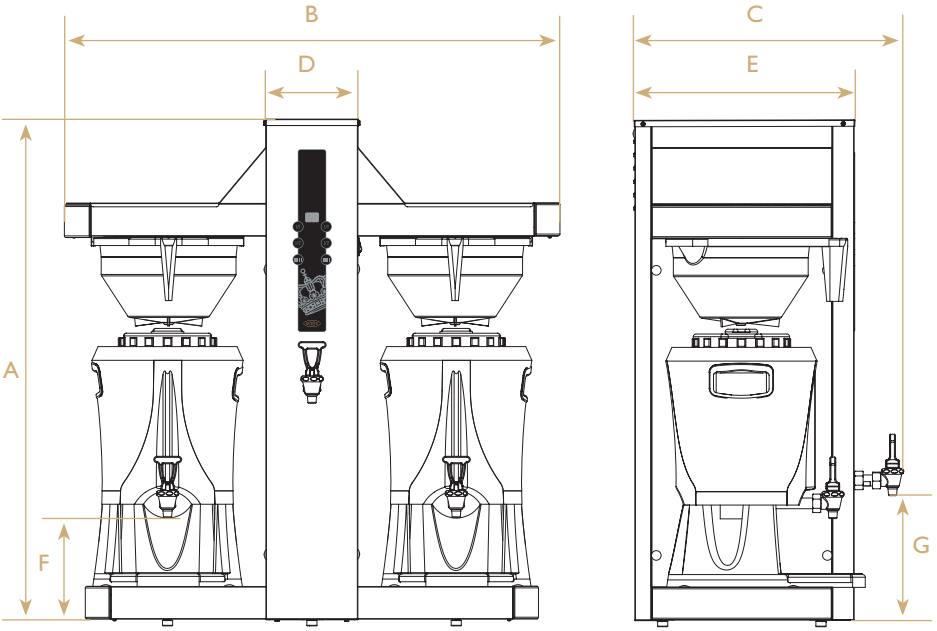
Model	A	B	C	D	E
Mega Gold A/M	655mm	205mm	445mm	390mm	806mm

Single Tower



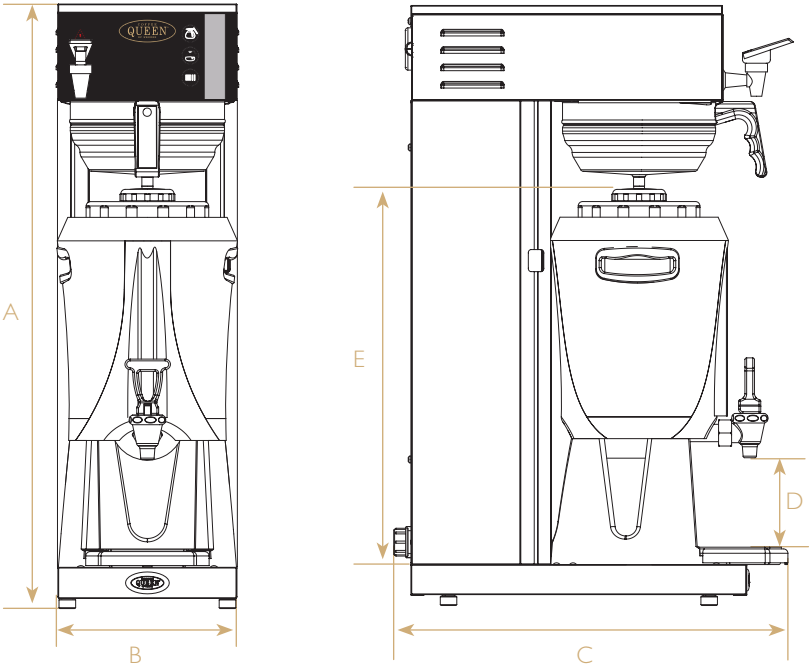
Model	A	B	C	D	E	F	G
Single Tower	934mm	610mm	500mm	174mm	410mm	233mm	244mm

Tower



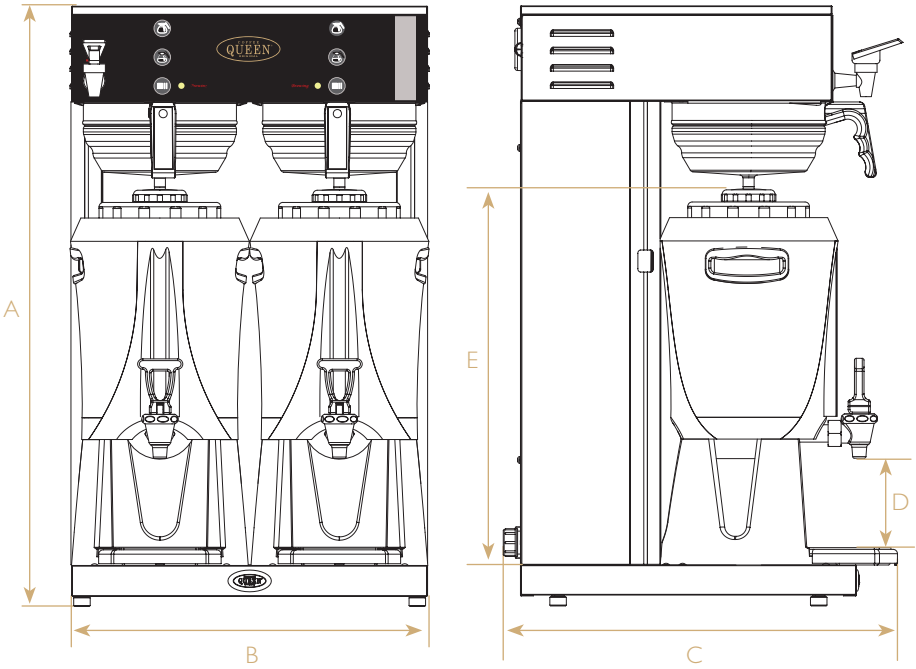
Model	A	B	C	D	E	F	G
Tower	934mm	928mm	500mm	174mm	410mm	233mm	244mm

Single Cater/ Tea Cater



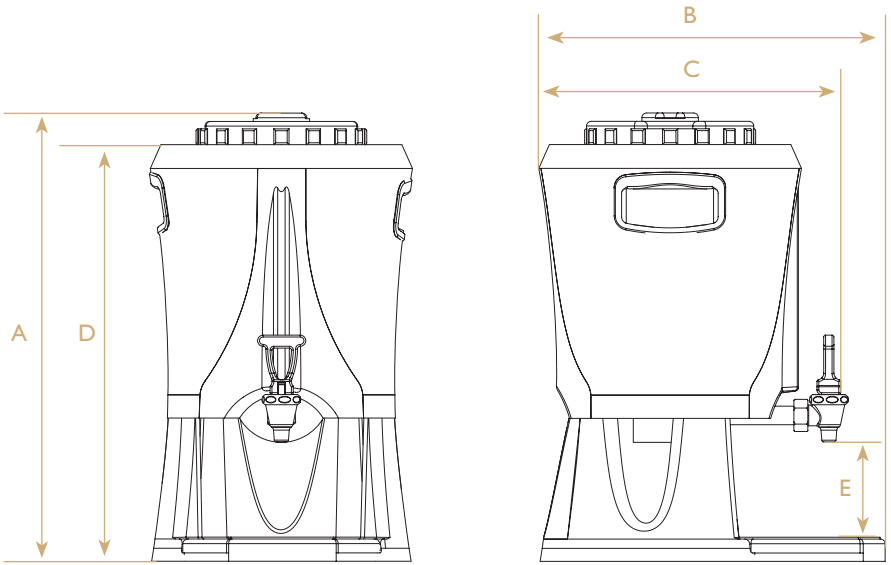
Model	A	B	C	D	E
Single Cater/Tea Cater	690mm	205mm	450mm	105mm	436mm

Cater



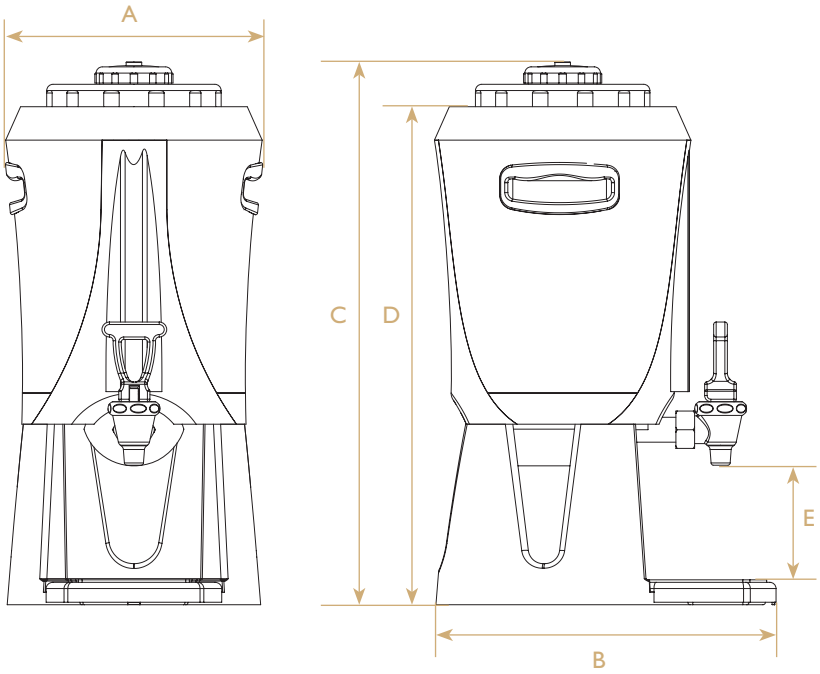
Model	A	B	C	D	E
Cater	690mm	410mm	450mm	105mm	436mm

Serving station 5L



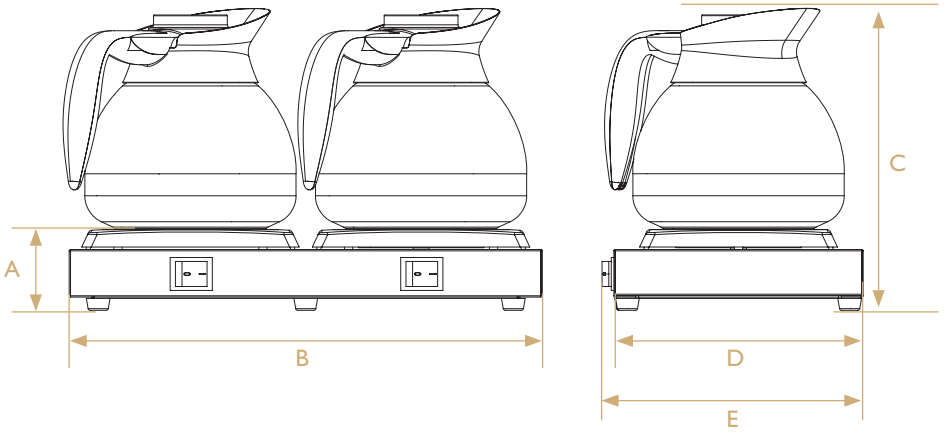
Model	A	B	C	D	E
Serving station 5L	483mm	373mm	325mm	449mm	110mm

Serving station 2.5L



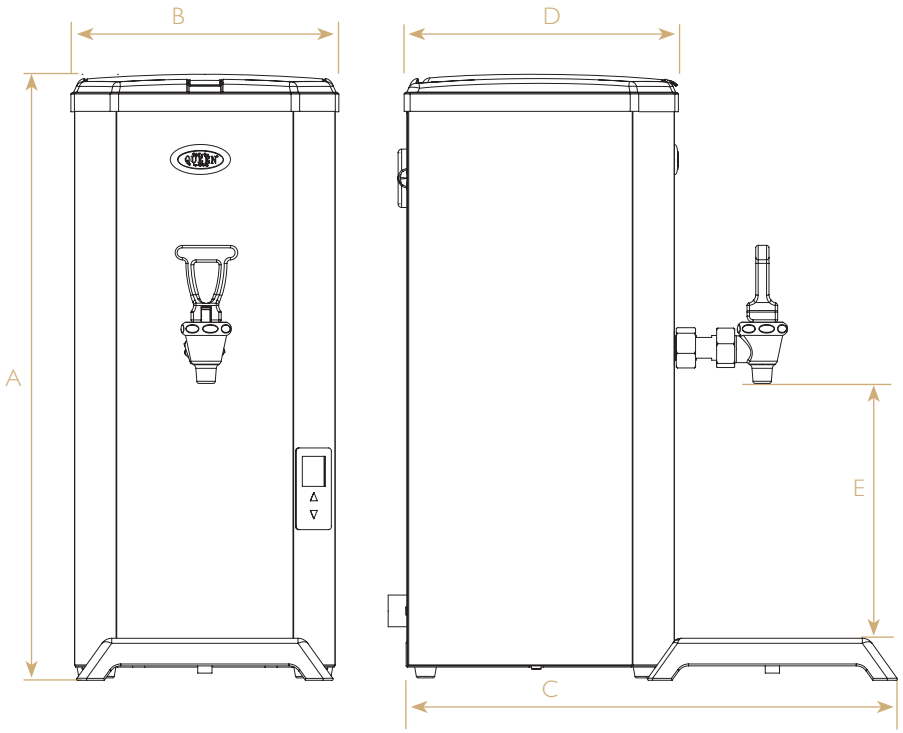
Model	A	B	C	D	E
Serving station 2.5L	205mm	273mm	436mm	400mm	105mm

V-2



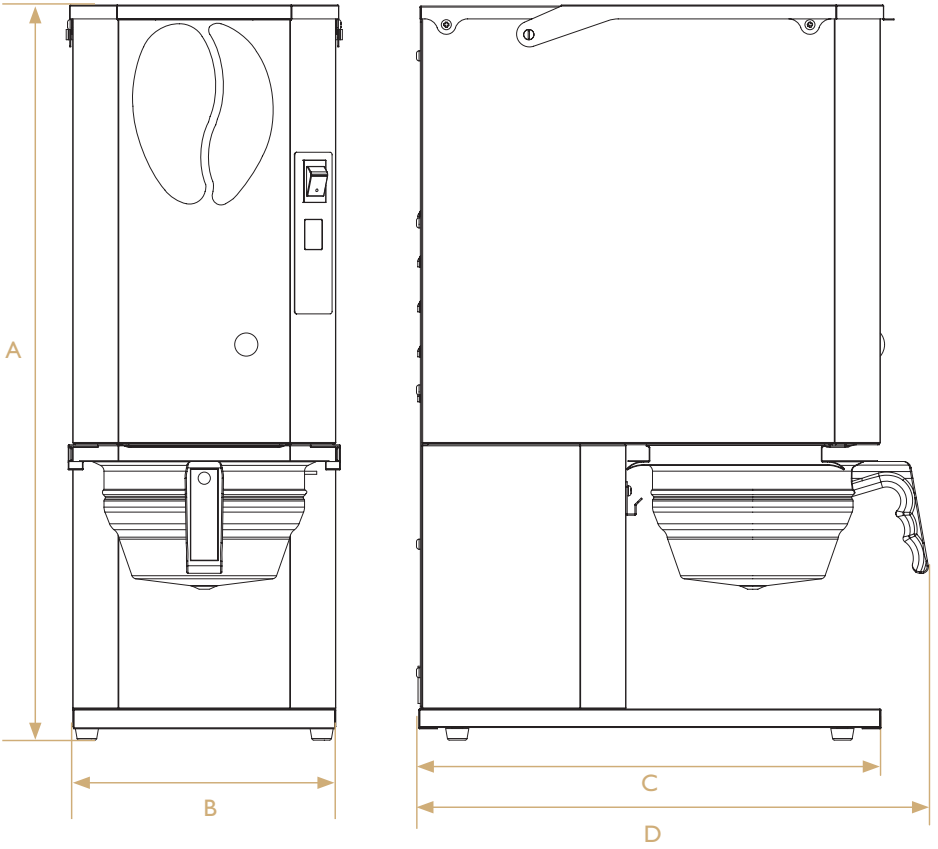
Model	A	B	C	D	E
V-2	62mm	359mm	230mm	189mm	198mm

HVA/HVM



Model	A	B	C	D	E
HVA/HVM 1 phase	500mm	225mm	410mm	240mm	210mm
HVA/HVM 3 phase	500mm	225mm	410mm	240mm	210mm

Grinder Original



Model	A	B	C	D
Grinder Original	570mm	215mm	368mm	390mm

For the warranty to be valid the conditions for maintenance must have been followed according to our instructions, proper precaution has been made and warranty claim been issued without delay.

The affected equipment may not be used during awaiting service if there is any risk that the damage or defect would worsen.

The warranty will not cover consumption supplies such as glassware, normal maintenance such as cleaning of filters, contaminations in water, lime, incorrect voltages, pressure or adjustment of water amounts.

The warranty will not cover damages of defects caused by incorrect handling and operation of the appliance.

FOR SERVICE

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